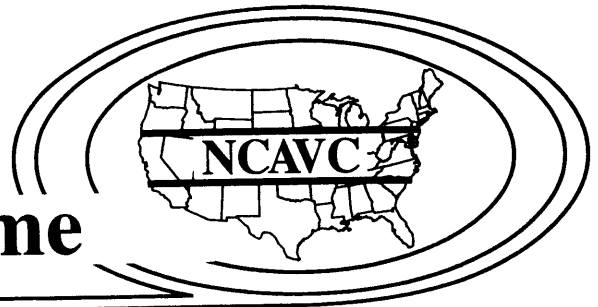


**U.S. Department of Justice
Federal Bureau of Investigation**

**National Center
For The
Analysis of Violent Crime**



NCAVC

**CRITICAL INCIDENT RESPONSE GROUP
FBI Academy
Quantico, Virginia
JUNE 1998**

The Critical Incident Response Group (CIRG)

The Critical Incident Response Group (CIRG) is an FBI field entity located at the FBI Academy in Quantico, Virginia. Established in May 1994, the CIRG was designed to provide rapid assistance to incidents of a crisis nature. It furnishes emergency response to terrorist activities, hostage situations, barricaded subjects, and other critical incidents.

The CIRG is composed of diverse units that provide operational support and training and conduct research in related areas. Expertise is furnished in cases involving abduction or mysterious disappearance of children, crime scene analysis, profiling, crisis management, hostage negotiations, and special weapons and tactics.

The National Center for the Analysis of Violent Crime (NCAVC)

The National Center for the Analysis of Violent Crime (NCAVC), one of the major components of the CIRG, combines investigative/operational support functions, research, and training in order to provide assistance, without charge, to Federal, state, local, and foreign law enforcement agencies investigating unusual, bizarre, or repetitive violent crimes.

Investigative/Operational Assistance

The experienced FBI Special Agents and other professionals who comprise the NCAVC staff provide advice and support in the general areas of Crimes Against Children; Crimes Against Adults; and Threat Assessment, Corruption, and Property Crimes. Typical cases received for services include child abductions or mysterious disappearance of children, serial murders, single homicides, serial rapes, extortions, threats, kidnappings, product tampering, arsons and bombings, weapons of mass destruction, public corruption, and domestic and international terrorism.

The NCAVC staff reviews crimes from both behavioral and investigative perspectives. This criminal investigative analysis process serves as a tool for client law enforcement agencies by providing them with an analysis of the crime as well as an understanding of criminal motivation and behavioral descriptions of the offender. Services provided to law enforcement agencies through this process include the following:

Crime Analysis: The NCAVC staff member reviews the initial crime scene information and preliminary investigative efforts and offers suggestions that may help direct the course of the investigation.

Investigative Suggestions: Certain investigative suggestions and strategies may be offered based on a review of the entire case, focusing particularly on an evaluation of the crime scene and an assessment of the likely offender.

Profiles of Unknown Offenders: By analyzing the details by which a crime was committed, NCAVC staff members can often identify important personality and behavioral characteristics of an offender. Certain crime scenes may reveal behavioral characteristics that give clues about an offender's personality or lifestyle and allow investigators to predict future activity.

Threat Analysis: Communicated threats are evaluated to determine whether the author or caller has the intent, knowledge, or means to carry out any stated or implied threat. A behavioral description of the unknown offender may be provided to assist in identification and apprehension. Known offenders who make threats or who appear to pose a danger may be assessed for potential dangerousness, given appropriate and sufficient background data.

Critical Incident Evaluations: NCAVC staff serve as a resource to CIRG's crisis management, tactical, and on-scene commanders during crisis situations by offering overall behavioral assessment of critical incidents, crime scenes, and potentially dangerous individuals.

Interview Strategies: The NCAVC staff can make suggestions about interview strategies of subjects, suspects, or witnesses, based on a general assessment of the person and an analysis of the crime(s) and behavior exhibited. Suggestions may relate to the most appropriate type of interviewer, desirable approach, and the best environment in which to conduct the interview.

Major Case Management: The NCAVC staff can provide guidance and resources to manage and organize a major multiagency investigation, such as those that occur in child abduction or serial murder cases. Particularly helpful to those investigating the abduction or mysterious disappearance of a child is the *Child Abduction Response Plan* prepared by NCAVC staff with the assistance of and advice from FBI and police investigators who have extensive experience working child abduction cases.

Search Warrant Assistance: Research and experience have shown that certain behavior and personality traits are commonly possessed by specific types of offenders. This information can be particularly beneficial to support affidavits for search warrants.

Prosecutive and Trial Strategies: At the request of the investigating agency or prosecuting attorney, the NCAVC staff may make recommendations regarding possible cross-examination techniques for offenders or witnesses, overall prosecutive theme development, or suggestions for jury selection.

Expert Testimony: NCAVC members have qualified to testify as experts in the areas of criminal investigative analysis, crime scene analysis, violent criminal behavior, and assessment of dangerousness.

Violent Criminal Apprehension Program (VICAP): VICAP is a behaviorally-based crime analysis tool that has been significantly redesigned and structured to address violent crime problems affecting law enforcement agencies. The new system consists of a revised VICAP Crime Analysis Report and a user-friendly computer system designed to enhance crime analysis for specific violent crimes, including solved or unsolved homicides, missing persons, and unidentified dead persons. It is available free of charge to any agency willing to become a part of this effective network of crime analysis.

In addition to the above services, the NCAVC staff can coordinate and obtain other resources to apply to a given investigation. The NCAVC maintains a reference file for experts in various forensic disciplines such as odontology, anthropology, entomology, or pathology. Staff members can coordinate acquisition of special aircraft, tracking or cadaver dogs, or use of the FBI's Evidence Response Team. The NCAVC also works closely with the National Center for Missing and Exploited Children in child abductions and other child victimization cases.

Research

The NCAVC also conducts research into violent crime from a law enforcement perspective. Of primary interest to researchers is how the offenders in the study committed their crimes and how they avoided detection, identification, apprehension, and conviction. The research is designed to gain insight into criminal thought processes, motivations, and behavior. Insights gained through the research are refined into innovative investigative techniques and applied to improve law enforcement's effectiveness against the violent criminal. College undergraduates and graduate students working as interns in the NCAVC provide assistance to the staff in many of the research efforts.

Results of the research are shared with the law enforcement and academic world through publications, presentations, and training, as well as through the application of knowledge to the investigative and operational functions of the Center. Some findings are also useful to incorporate into crime prevention programs. Past and planned research includes studies of sexual homicide, serial rape, child molestation and abduction, bombing, arson, acts using weapons of mass destruction, threatening communications, and serial murder.

Training

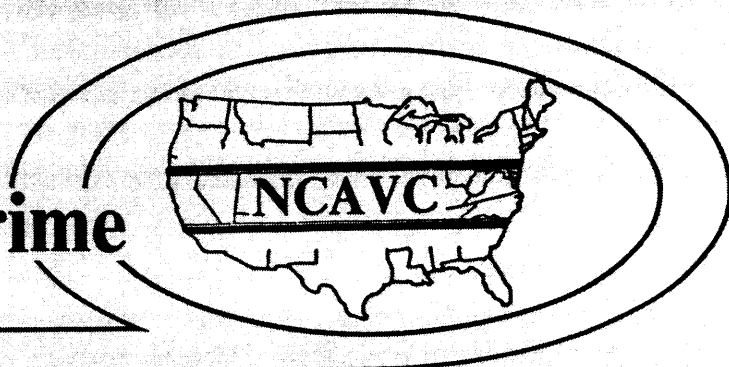
The NCAVC staff participates in numerous training functions throughout the year. The NCAVC is represented at major law enforcement conferences such as the International Association of Chiefs of Police and National Sheriff's Association. Staff members take part as attendees and speakers at symposia sponsored by such organizations as the American Professional Society on the Abuse of Children, Academy of Forensic Sciences, International Homicide Investigators Association, American Bar Association, and the Academy of Criminal Justice Science.

Requests for training or presentations by the NCAVC should be made through the local FBI field office.

NCAVC toll-free number: 800-634-4097

U.S. Department of Justice
Federal Bureau of Investigation

**National Center
For The
Analysis of Violent Crime**



**CRIMINAL INVESTIGATIVE
ANALYSIS**

SEXUAL HOMICIDE



1990

NCAVC FBI ACADEMY Quantico, Va.

NATIONAL CENTER FOR THE ANALYSIS OF VIOLENT CRIME

* * * * *

FOREWORD

This booklet is a compilation of articles written by members of the Behavioral Science Units, National Center for the Analysis of Violent Crime, at the FBI Academy. Topics covered in this booklet are:

Criminal Investigative Analysis (Profiling)

Sexual Homicide

Criminal Investigative Analysis

Special Agents assigned to the Criminal Investigative Analysis Program (CIAP) of the National Center for the Analysis of Violent Crime provide operational and investigative support to FBI field offices and law enforcement agencies investigating violent crimes. The terms "psychological profile" and "criminal personality profile" are no longer used in describing the work done by the analysts. Although the "profile" or description of the type of person who would be likely to have committed the crime or crimes analyzed is part of the service provided, it is secondary to the overall crime analysis. The analysts also provide suggestions for investigative strategy, interviewing and investigative techniques, search warrant information, and prosecutive strategy. In some cases, the Agents may testify in court as expert witnesses about the process of criminal investigative analysis.

The articles included in this section describe criminal investigative analysis in general. Some articles that deal with analysis in particular crimes such as homicide or rape are included in books or sections dealing with that crime.

Sexual Homicide

The FBI's Behavioral Science Units conducted research into sexual homicide. The project involved the interview of 36 convicted, incarcerated killers, many of whom were serial killers. The articles in this section describe results of that research.

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CRIMINAL INVESTIGATIVE ANALYSIS

Criminal Profiling: A Viable Investigative Tool Against Violent Crime
Criminal Profiling from Crime Scene Analysis
Offender Profiles: A Multidisciplinary Approach
A Psychological Assessment of Crime: Profiling

* * * * *

Criminal Profiling

A Viable Investigative Tool Against Violent Crime

Quickly apprehending a perpetrator of a violent crime—rape, homicide, child abduction—is a major goal of all law enforcement agencies. Unlike other disciplines concerned with human violence, law enforcement does not, as a primary objective, seek to explain the actions of a violent offender. Instead, its task is to ascertain the identity of the offender based on what is known of his actions. Described by one author as an emitter of signals during commission of a crime,¹ the criminal must be identified as quickly as possible to prevent further violence. While studies explaining why certain individuals commit violent crimes may aid them in their search, law enforcement investigators must adapt the study findings to suit their own particular needs. Criminal profiling is a tool law enforcement may use to combine the results of studies in other disciplines with more traditional techniques in an effort to combat violent crime.

The Profiling Process

The profiling process is defined by the FBI as an investigative technique by which to identify the major personality and behavioral characteristics of the offender based upon an analysis of the crime(s) he or she has committed. The process generally involves seven steps.

- 1) Evaluation of the criminal act itself,
- 2) Comprehensive evaluation of the specifics of the crime scene(s),
- 3) Comprehensive analysis of the victim,
- 4) Evaluation of preliminary police reports,
- 5) Evaluation of the medical examiner's autopsy protocol,
- 6) Development of profile with critical offender characteristics, and
- 7) Investigative suggestions predicated on construction of the profile.

The process used by the person preparing a criminal personality profile is quite similar to that used by clinicians to make a diagnosis and treatment plan: Data is collected and assessed, the situation reconstructed, hypotheses are formulated, a profile developed and tested, and the results reported back.

Criminal personality profiling has been used by law enforcement with success in many areas and is viewed as a way in which the investigating officer can narrow the scope of an investigation. Profiling unfortunately does not provide the identity of the offender, but it does indicate the type of person most likely to have committed a crime having certain unique characteristics.

By

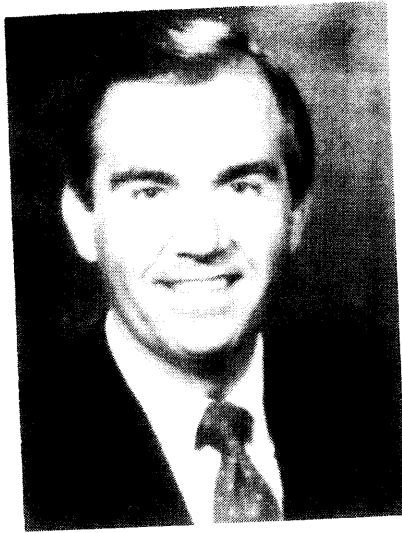
JOHN E. DOUGLAS, M.S.

*Special Agent/Program Manager
Profiling and Consultation Program
Behavioral Science
Investigative Support Unit
National Center for the Analysis
of Violent Crime
FBI Academy Quantico, VA*

and

ALAN E. BURGESS, M.Ed.

*Special Agent/Unit Chief
Behavioral Science
Investigative Support Unit
and
Deputy Administrator
National Center for the Analysis
of Violent Crime
FBI Academy Quantico, VA*



Special Agent Douglas



Special Agent Burgess

Profile Applications

One area in which criminal profiling (personality assessment) has been useful is in hostage negotiation.² Law enforcement officers need to learn as much as possible about the hostage taker in order to protect the lives of the hostages. They must be able to assess the subject in terms of his probable course of action and his reactions to various stimuli. In such cases, police obtain information about the offender through verbal contact with the hostage taker and possibly through access to his family and associates.

Criminal profiling techniques have also been used in identifying anonymous letter writers³ and persons who make written or spoken threats of violence.⁴ In cases of the latter, psycholinguistic techniques have been used to compose a "threat dictionary," whereby every word in a message is assigned, by computer, to a specific category. Words as they are used in the message are then compared to those words as they are used in ordinary speech or writings, and the vocabulary usage of a particular author or speaker may yield "signature" words unique to that individual. In this way, police may not only be able to determine that several letters were written by the same individual but also learn about the background and psychology of the offender.

Rapists and arsonists also lend themselves to criminal profiling techniques. Through careful interview of the rape victim about the rapist's behavior, law enforcement personnel may be able

to build a profile of the offender.⁵ The theory behind this approach is that behavior (sexual, physical, verbal) reflects personality, and by examining the behavior of the rapist during the assault, the investigator may be able to determine what type of person is responsible for the offense. Common characteristics of arsonists have been derived from an analysis of the Uniform Crime Reports.⁶ Knowledge of the arsonist's psychodynamics can aid the investigator in identifying possible suspects, predicting location of subsequent arsons, and developing techniques and strategies for interviewing suspects.

Criminal profiling has been useful in investigating sexual homicides because many of these crimes appear motiveless and thus offer few obvious clues about the killer's identity. In murders that result from jealousy or a family quarrel, or take place during commission of a felony, the readily identifiable motive generally provides vital information about the identity of the killer. Because many sexual homicides fail to provide this information, investigators must look to methods that supplement conventional investigative techniques to identify the perpetrator.

Case in Point

Criminal profiling uses the behavioral characteristics of the offender as its basis. Sexual homicides, for example, yield much information about the mind and motivation of the killer. A new dimension is provided to the investigator via the profiling technique, particularly in cases where the underlying motivation for the crime may be suddenly hidden from even the more-

"Criminal profiling uses the behavioral characteristics of the offender as its basis."



On occasion, NCAVC profilers or major case specialists will conduct on-site consultations. Pictured from left are Special Agents Robert Hazelwood, Ray Phelps, James Wright (kneeling), Robert Ressler, and Alan Burgess.

experienced detective. The following case will illustrate this point.

During the fall of 1982, an urban Midwest police department detective telephonically contacted the FBI's Behavioral Science Unit at the FBI Academy asking for some assistance. The detective described in detail the rape/murder of a 25-year-old white married woman. The detective advised that the apartment where the victim was killed had been ransacked, but they were unable to determine at that time if anything was taken by the killer. In view of the fact that many leads were still outstanding and information concerning the autopsy, laboratory exami-

nations, background of the victim, previously reported neighborhood crimes, etc., was still pending, the detective was advised that a profile could not be provided at that time. After approximately 1 week, the detective forwarded the necessary information to the local FBI field office criminal profile coordinator. After reviewing the case for completeness, the profile coordinator forwarded the materials to the Behavioral Science Investigative Support Unit at the FBI Academy for analysis.

Color 8 x 10 crime scene photographs re-created the crime and revealed that the victim was killed in her living room, with no evidence of any struggle or defense attempts by her. The victim was lying face up on the living room floor. Her dress was raised up over her hips exposing her genital area,

and her panties were pulled down to her knees. The murder weapon (hammer) belonging to the victim was found in kitchen sink, and it appeared that the victim's blood had been washed off the hammer by the subject. Crime scene photographs further revealed that the subject opened dresser drawers and closet doors. Investigative reports indicated the victim's husband advised that jewelry belonging to victim was missing.

The victim and her husband had lived in the apartment for approximately 6 months, and neighbors and associates reported they were friendly and quiet and kept to themselves. The medical examiner concluded in his

"Profiling . . . does not provide the identity of the offender, but it does indicate the type of person most likely to have committed a crime having certain unique characteristics."



Profilers in "think tank" session. Seated: SAs James Wright, Patricia Kirby, and Ronald Walker. Standing: Lt. Thomas Cronin, Chicago PD, Police Fellow (left) and SA R. Stephen Maridgian (right)

protocol that there was no apparent indication that the victim was sexually assaulted. Laboratory reports indicated that the victim had been drinking at the time of the assault, and there was no evidence of semen present in or on the victim or her clothing.

From the above information, the criminal profiler advised the detective that he had already interviewed the killer. The surprised detective was presented with the following probable crime scenario.

The victim was drinking with the offender prior to her death. An argument ensued, reaching a threshold where the offender could not take it any longer. Angered, he obtained a "weapon of opportunity" from a kitchen cabinet and

returned to the living room where he confronted the victim face to face and repeatedly struck victim about her head and face. After killing her, the offender realized that the police would surely implicate him as the obvious murderer. He then washed blood from his hands in the kitchen sink and also cleaned blood and fingerprints from the hammer. He rolled the victim over in a face-up position and "staged" the crime to appear the way he felt a sexually motivated crime should look. He conducted the staging by making it appear that the offender searched for money or personal property in the apartment.

Upon hearing this analysis of the crime, the detective exclaimed, "You just told me the husband did it."

The detective was coached regarding suggested reinterview techniques of the victim's husband. In addition, the detective was further advised that if the victim's husband were given a polygraph examination, he in all probability would react more strongly to the known fact that he was "soiled" by his wife's blood than to questions concerning his wife's murder. The detective was told to have the polygraph examiner direct questions at the husband, acknowledging the fact that he got blood on his hands and washed them off along with the hammer in the kitchen sink.

About 5 days later, the detective called the criminal profiler to advise that the victim's husband was charged with murder. According to the detective, the husband failed the polygraph and subsequently admitted his guilt to the polygraph examiner.

The Profiling and Consultation Program

The FBI's profiling program has grown considerably since the late 1970's from "informal" analysis and profiling during criminal psychology classes at the FBI Academy to the present formalized program. Currently, the program consists of one program manager and seven criminal profilers and crime analysts. These Agents were selected primarily for their investigative experience, expertise, and educational backgrounds. The Behavioral Science Investigative Support Unit has found that anyone seeking transfer into this highly specialized program must possess above all other attributes and accomplishments a strong investigative background that includes participating in, supervising, and managing major case assignments.

During 1985, the Criminal Profiling and Consultation Program received over 600 requests for profiling assistance. It is anticipated that once the FBI's Violent Criminal Apprehension Program (VICAP) is fully operational, the number of profiling requests will nearly double annually.

One key link to the success of the FBI's Criminal Profiling Program is its criminal profile coordinators who are located at every one of the FBI's 59 field offices. These highly trained and selected Agents are responsible for screening cases and for providing preliminary investigative suggestions to investigators. While the field coordinators do not have the authority to provide profiles to requesting law enforcement agencies, they are authorized to prepare preliminary "rough draft" profiles which are reviewed by the profiling staff at the FBI Academy prior to being disseminated to the requesting agency.

Criminal profiling is available to local, State, Federal, and foreign law enforcement agencies or departments. It should be noted that not every violent crime matter lends itself to the profiling process. The criminal profile coordinators in the FBI field offices determine during review of the case whether it can be profiled. However, while a case may not be suitable for profiling, the coordinator may still submit it to the Behavioral Science Unit for other types of services. Criminal profilers at the FBI Academy may assist the law enforcement community by providing interview/interrogation techniques, investigative suggestions and techniques, establish probable cause for search warrants as a result of National Center for the Analysis of Violent Crime violent offender research findings, assist prosecutors relative to prosecutive strategies, and possibly provide testimony as a witness for the prosecution or as an expert witness during the sentence phase of the trial. All cases must be submitted to the local FBI field office for review and administrative handling by that criminal profile coordinator.

Lt. Commdr. Vernon J. Geberth of the New York City Police Department wrote in his book, *Practical Homicide Investigation: Tactics, Procedures and Forensic Techniques*, "This program has proven to be beneficial to law enforcement and has provided homicide detectives with a viable investigative tool. . . ."⁷

Criminal profiling will never take the place of a thorough and well-planned investigation nor will it ever eliminate the seasoned, highly trained, and skilled detective. Criminal profiling has, however, developed itself to a level

where the detective has another investigative weapon available to him in solving a violent crime. The offender, on the other hand, has an added worry that in time he will be identified, indicted, successfully prosecuted, and sentenced for his crime.

FBI

Footnotes

¹ M. Willmer, *Crime and Information Theory* (Edinburgh, England: The University of Edinburgh, 1970).

² M. Reiser, "Crime-specific Psychological Consultation," *The Police Chief*, March 1982, pp. 53-56.

³ M. Casey-Owens, "The Anonymous Letter Writer—A Psychological Profile?" *Journal of Forensic Science*, vol. 29, 1984, pp. 816-819.

⁴ M. S. Miron and John E. Douglas, "Threat Analysis: The Psycholinguistic Profile," *FBI Law Enforcement Bulletin*, vol. 48, No. 9, September 1979, pp. 5-9.

⁵ R. R. Hazelwood, "The Behavior-oriented Interview of Rape Victims: The Key to Profiling," *FBI Law Enforcement Bulletin*, vol. 52, No. 9, September 1983, pp. 8-15.

⁶ A. O. Rider, "The Firesetter—A Psychological Profile," *FBI Law Enforcement Bulletin*, vol. 49, No. 6, June 1980, pp. 4-11.

⁷ Vernon J. Geberth, *Practical Homicide Investigation: Tactics, Procedures and Forensic Techniques* (New York: Elsevier, 1983), p. 399.

Criminal Profiling from Crime Scene Analysis

John E. Douglas, M.S.
Robert K. Ressler, M.S.
Ann W. Burgess, R.N., D.N.Sc.
Carol R. Hartman, R.N., D.N.Sc.

Since the 1970s, investigative profilers at the FBI's Behavioral Science Unit (now part of the National Center for the Analysis of Violent Crime) have been assisting local, state, and federal agencies in narrowing investigations by providing criminal personality profiles. An attempt is now being made to describe this criminal-profile-generating process. A series of five overlapping stages lead to the sixth stage, or the goal of apprehension of the offender: (1) profiling inputs, (2) decision-process models, (3) crime assessment, (4) the criminal profile, (5) investigation, and (6) apprehension. Two key feedback filters in the process are: (a) achieving congruence with the evidence, with decision models, and with investigation recommendations, and (b) the addition of new evidence.

"You wanted to mock yourself at me! . . . You did not know your Hercule Poirot." He thrust out his chest and twirled his moustache.

I looked at him and grinned . . . "All right then," I said. "Give us the answer to the problems—if you know it."

"But of course I know it."

John E. Douglas, M.S., is Supervisory Special Agent, Federal Bureau of Investigation and Program Manager, Profiling and Consultation Program, National Center for the Analysis of Violent Crime, FBI Academy, Quantico, VA; Robert K. Ressler, M.S., is Supervisory Special Agent, Federal Bureau of Investigation and Program Manager, Violent Criminal Apprehension Program, National Center for the Analysis of Violent Crime, FBI Academy, Quantico, VA; Ann W. Burgess, R.N., D.N.Sc., is van Ameringen Professor of Psychiatric Mental Health Nursing, University of Pennsylvania School of Nursing, Philadelphia, PA; and Carol R. Hartman, R.N., D.N.Sc., is Associate Professor and Coordinator of the Graduate Program in Psychiatric Mental Health Nursing, Boston College School of Nursing, Chestnut Hill, MA. Preparation of this manuscript was supported by an Office of Juvenile Justice and Delinquency Prevention grant (84-JN-K010). The authors wish to acknowledge Allen G. Burgess, Cynthia J. Lent, and Marianne L. Clark for contributions to this manuscript. *Correspondence and reprint requests should be addressed to: John E. Douglas, FBI Academy, Quantico, VA 22135.*

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Hardecastle stared at him incredulously . . . "Excuse me, Monsieur Poirot, you claim that you know who killed three people. And why? . . . All you mean is that you have a hunch."

I will not quarrel with you over a word . . . Come now, Inspector. I know—really know . . . I perceive you are still sceptic. But first let me say this. To be sure means that when the right solution is reached, everything falls into place. You perceive that in no other way could things have happened."

(Christie, 1963, pp. 227–228)

The ability of Hercule Poirot to solve a crime by describing the perpetrator is a skill shared by the expert investigative profiler. Evidence speaks its own language of patterns and sequences that can reveal the offender's behavioral characteristics. Like Poirot, the profiler can say, "I know who he must be."

This article focuses on the developing technique of criminal profiling. Special Agents at the FBI Academy have demonstrated expertise in crime scene analysis of various violent crimes, particularly those involving sexual homicide. This article discusses the history of profiling and the criminal-profile-generating process and provides a case example to illustrate the technique.

INTRODUCTION: HISTORY OF CRIMINAL PROFILING

Criminal profiling has been used successfully by law enforcement in several areas and is a valued means by which to narrow the field of investigation. Profiling does *not* provide the specific identity of the offender. Rather, it indicates the kind of person most likely to have committed a crime by focusing on certain behavioral and personality characteristics.

Profiling techniques have been used in various settings, such as hostage taking (Reiser, 1982). Law enforcement officers need to learn as much as possible about the hostage taker in order to protect the lives of the hostages. In such cases, police are aided by verbal contact (although often limited) with the offender, and possibly by access to his family and friends. They must be able to assess the subject in terms of what course of action he is likely to take and what his reactions to various stimuli might be.

Profiling has been used also in identifying anonymous letter writers (Casey-Owens 1984) and persons who make written or spoken threats of violence (Miron & Douglas 1979). In cases of the latter, psycholinguistic techniques have been used to compose a "threat dictionary," whereby every word in a message is assigned, by computer, to a specific category. Words as they are used in the threat message are then compared with those words as they are used in ordinary speech or writings. The vocabulary usage in the message may yield "signature" words unique to the offender. In this way, police may not only be able to determine that several letters were written by the same individual, but also to learn about the background and psychology of the offender.

Rapists and arsonists also lend themselves to profiling techniques. Through

Careful interview of the rape victim about the rapist's behavior, law enforcement personnel begin to build a profile of the offender (Hazelwood, 1983). The rationale behind this approach is that behavior reflects personality, and by examining behavior the investigator may be able to determine what type of person is responsible for the offense. For example, common characteristics of arsonists have been derived from an analysis of the data from the FBI's *Crime in the United States* (Rider, 1980). Knowledge of these characteristics can aid the investigator in identifying possible suspects and in developing techniques and strategies for interviewing them. However, studies in this area have focused on specific categories of offenders and are not yet generalizable to all offenders.

Criminal profiling has been found to be of particular usefulness in crimes such as serial sexual homicides. These crimes create a great deal of fear because of their apparently random and motiveless nature, and they are also given high publicity. Consequently, law enforcement personnel are under great public pressure to apprehend the perpetrator as quickly as possible. At the same time, these crimes may be the most difficult to solve, precisely because of their apparent randomness.

While it is not completely accurate to say that these crimes are motiveless, the motive may all too often be one understood only by the perpetrator. Lunde (1976) demonstrates this issue in terms of the victims chosen by a particular offender. As Lunde points out, although the serial murderer may not know his victims, their selection is not random. Rather, it is based on the murderer's perception of certain characteristics of his victims that are of symbolic significance to him. An analysis of the similarities and differences among victims of a particular serial murderer provides important information concerning the "motive" in an apparently motiveless crime. This, in turn, may yield information about the perpetrator himself. For example, the murder may be the result of a sadistic fantasy in the mind of the murderer and a particular victim may be targeted because of a symbolic aspect of the fantasy (Ressler et al., 1985).

In such cases, the investigating officer faces a completely different situation from the one in which a murder occurs as the result of jealousy or a family quarrel, or during the commission of another felony. In those cases, a readily identifiable motive may provide vital clues about the identity of the perpetrator. In the case of the apparently motiveless crime, law enforcement may need to look to other methods in addition to conventional investigative techniques, in its efforts to identify the perpetrator. In this context, criminal profiling has been productive, particularly in those crimes where the offender has demonstrated repeated patterns at the crime scene.

THE PROFILING OF MURDERERS

Traditionally, two very different disciplines have used the technique of profiling murderers: mental health clinicians who seek to explain the personality and actions of a criminal through psychiatric concepts, and law enforcement

agents whose task is to determine the behavioral patterns of a suspect through investigative concepts.

Psychological Profiling

In 1957, the identification of George Metesky, the arsonist in New York City's Mad Bomber case (which spanned 16 years), was aided by psychiatrist-criminologist James A. Brussel's staccato-style profile:

"Look for a heavy man. Middle-aged. Foreign born. Roman Catholic. Single. Lives with a brother or sister. When you find him, chances are he'll be wearing a double-breasted suit. Buttoned."

Indeed, the portrait was extraordinary in that the only variation was that Metesky lived with two single sisters. Brussel, in a discussion about the psychiatrist acting as Sherlock Holmes, explains that a psychiatrist usually studies a person and makes some reasonable predictions about how that person may react to a specific situation and about what he or she may do in the future. What is done in profiling, according to Brussel, is to reverse this process. Instead, by studying an individual's deeds one deduces what kind of a person the individual might be (Brussel, 1968).

The idea of constructing a verbal picture of a murderer using psychological terms is not new. In 1960, Palmer published results of a three-year study of 51 murderers who were serving sentences in New England. Palmer's "typical murderer" was 23 years old when he committed murder. Using a gun, this typical killer murdered a male stranger during an argument. He came from a low social class and achieved little in terms of education or occupation. He had a well-meaning but maladjusted mother, and he experienced physical abuse and psychological frustrations during his childhood.

Similarly, Rizzo (1982) studied 31 accused murderers during the course of routine referrals for psychiatric examination at a court clinic. His profile of the average murderer listed the offender as a 26-year-old male who most likely knew his victim, with monetary gain the most probable motivation for the crime.

Criminal Profiling

Through the techniques used today, law enforcement seeks to do more than describe the typical murderer, if in fact there ever was such a person. Investigative profilers analyze information gathered from the crime scene for what it may reveal about the type of person who committed the crime.

Law enforcement has had some outstanding investigators; however, their skills, knowledge, and thought processes have rarely been captured in the professional literature. These people were truly the experts of the law enforcement field, and their skills have been so admired that many fictional characters (Sergeant Cuff,

Sherlock Holmes, Hercule Poirot, Mike Hammer, and Charlie Chan) have been modeled on them. Although Lunde (1976) has stated that the murders of fiction bear no resemblance to the murders of reality, a connection between fictional detective techniques and modern criminal profiling methods may indeed exist. For example, it is attention to detail that is the hallmark of famous fictional detectives; the smallest item at a crime scene does not escape their attention. As stated by Sergeant Cuff in Wilkie Collins' *The Moonstone*, widely acknowledged as the first full-length detective study:

At one end of the inquiry there was a murder, and at the other end there was a spot of ink on a tablecloth that nobody could account for. In all my experience . . . I have never met with such a thing as a trifle yet.

However, unlike detective fiction, real cases are not solved by one tiny clue but the analysis of all clues and crime patterns.

Criminal profiling has been described as a collection of leads (Rossi, 1982), as an educated attempt to provide specific information about a certain type of suspect (Geberth, 1981), and as a biographical sketch of behavioral patterns, trends, and tendencies (Vorpapel, 1982). Geberth (1981) has also described the profiling process as particularly useful when the criminal has demonstrated some form of psychopathology. As used by the FBI profilers, the criminal-profile-generating process is defined as a technique for identifying the major personality and behavioral characteristics of an individual based upon an analysis of the crimes he or she has committed. The profiler's skill is in recognizing the crime scene dynamics that link various criminal personality types who commit similar crimes.

The process used by an investigative profiler in developing a criminal profile is quite similar to that used by clinicians to make a diagnosis and treatment plan: data are collected and assessed, the situation reconstructed, hypotheses formulated, a profile developed and tested, and the results reported back. Investigators traditionally have learned profiling through brainstorming, intuition, and educated guesswork. Their expertise is the result of years of accumulated wisdom, extensive experience in the field, and familiarity with a large number of cases.

A profiler brings to the investigation the ability to make hypothetical formulations based on his or her previous experience. A formulation is defined here as a concept that organizes, explains, or makes investigative sense out of information, and that influences the profile hypotheses. These formulations are based on clusters of information emerging from the crime scene data and from the investigator's experience in understanding criminal actions.

A basic premise of criminal profiling is that the way a person thinks (i.e., his or her patterns of thinking) directs the person's behavior. Thus, when the investigative profiler analyzes a crime scene and notes certain critical factors, he or she may be able to determine the motive and type of person who committed the crime.

THE CRIMINAL-PROFILE-GENERATING PROCESS

Investigative profilers at the FBI's Behavioral Science Unit (now part of the National Center for the Analysis of Violent Crime [NCAVC]) have been analyzing crime scenes and generating criminal profiles since the 1970s. Our description of the construction of profiles represents the off-site procedure as it is conducted at the NCAVC, as contrasted with an on-site procedure (Ressler et al., 1985). The criminal-profile-generating process is described as having five main stages, with a sixth stage or goal being the apprehension of a suspect (see Fig. 1).

1. Profiling Inputs Stage

The profiling inputs stage begins the criminal-profile-generating process. Comprehensive case materials are essential for accurate profiling. In homicide cases, the required information includes a complete synopsis of the crime and a description of the crime scene, encompassing factors indigenous to that area to the time of the incident such as weather conditions and the political and social environment.

Complete background information on the victim is also vital in homicide profiles. The data should cover domestic setting, employment, reputation, habits, fears, physical condition, personality, criminal history, family relationships, hobbies, and social conduct.

Forensic information pertaining to the crime is also critical to the profiling process, including an autopsy report with toxicology/serology results, autopsy photographs, and photographs of the cleansed wounds. The report should also contain the medical examiner's findings and impressions regarding estimated time and cause of death, type of weapon, and suspected sequence of delivery of wounds.

In addition to autopsy photographs, aerial photographs (if available and appropriate) and 8 × 10 color pictures of the crime scene are needed. Also useful are crime scene sketches showing distances, directions, and scale, as well as maps of the area (which may cross law enforcement jurisdiction boundaries).

The profiler studies all this background and evidence information, as well as all initial police reports. The data and photographs can reveal such significant elements as the level of risk of the victim, the degree of control exhibited by the offender, the offender's emotional state, and his criminal sophistication.

Information the profiler does *not* want included in the case materials is that dealing with possible suspects. Such information may subconsciously prejudice the profiler and cause him or her to prepare a profile matching the suspect.

2. Decision Process Models Stage

The decision process begins the organizing and arranging of the inputs into meaningful patterns. Seven key decision points, or models, differentiate and

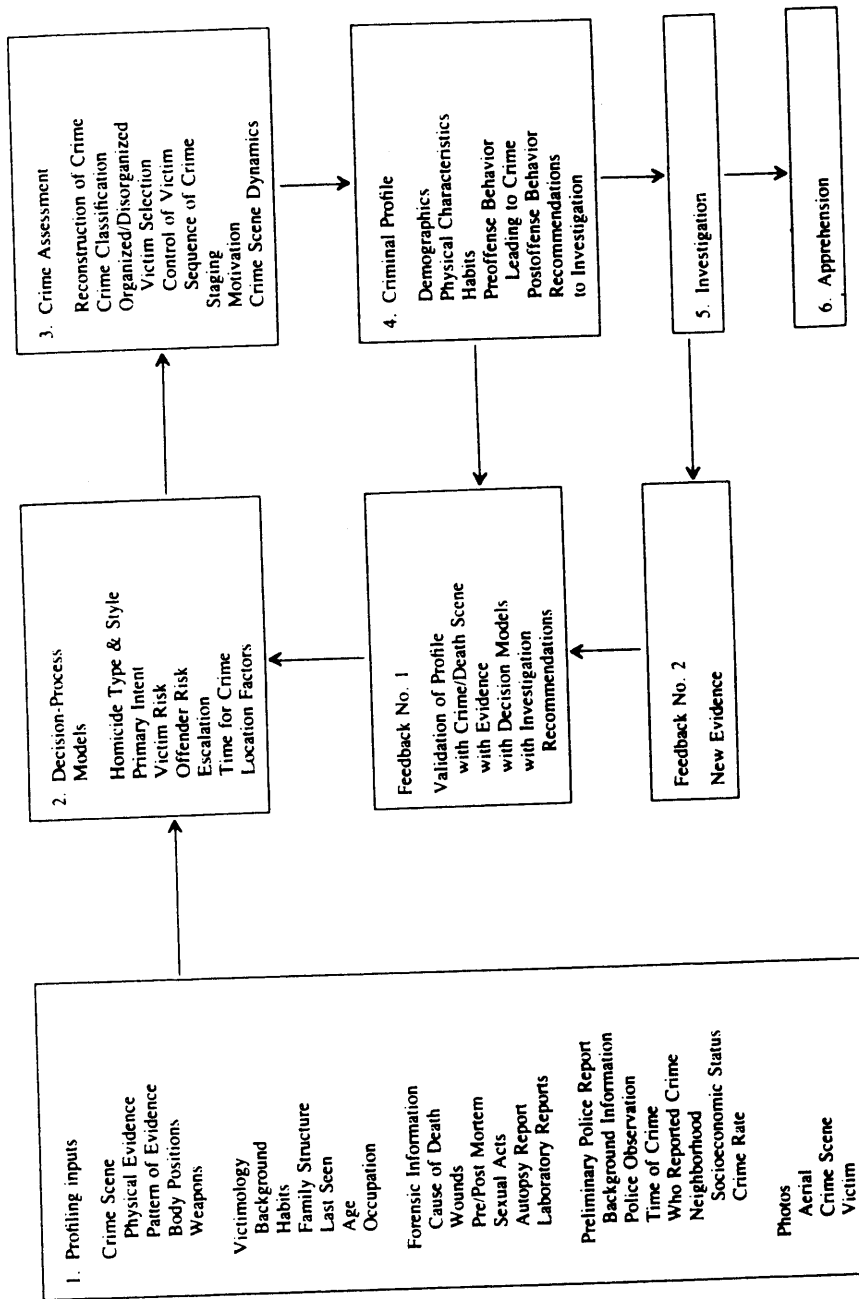


Figure 1. Criminal profile generating process.

organize the information from Stage 1 and form an underlying decisional structure for profiling.

Homicide Type and Style

As noted in Table I, homicides are classified by type and style. A single homicide is one victim, one homicidal event; double homicide is two victims, one event, and in one location; and a triple homicide has three victims in one location during one event. Anything beyond three victims is classified a mass murder; that is, four or more victims in one location, and within one event.

There are two types of mass murder: classic and family. A classic mass murder involves one person operating in one location at one period of time. That period of time could be minutes or hours and might even be days. The classic mass murderer is usually described as a mentally disordered individual whose problems have increased to the point that he acts against groups of people unrelated to these problems. He unleashes his hostility through shootings or stabbings. One classic mass murderer was Charles Whitman, the man who armed himself with boxes of ammunition, weapons, ropes, a radio, and food; barricaded himself on a tower in Austin, Texas; and opened fire for 90 minutes, killing 16 people and wounding over 30 others. He was stopped only when he was killed during an assault on the tower. James Huberty was another classic mass murderer. With a machine gun, he entered a fast food restaurant and killed and wounded many people. He also was killed at the site by responding police. More recently, Pennsylvania mass murderer Sylvia Seegrist (nicknamed Ms. Rambo for her military style clothing) was sentenced to life imprisonment for opening fire with a rifle at shoppers in a mall in October 1985, killing three and wounding seven.

The second type of mass murder is family member murder. If more than three family members are killed and the perpetrator takes his own life, it is classified as a mass murder/suicide. Without the suicide and with four or more victims, the murder is called a family killing. Examples include John List, an insurance salesman who killed his entire family on November 9, 1972, in Westfield, New Jersey. The bodies of List's wife and three children (ages 16, 15, and 13) were discovered in their front room, lying side by side on top of sleeping bags as if

TABLE I Homicide Classification by Style and Type

Style	Single	Double	Triple	Mass	Spree	Serial
Number of Victims	1	2	3	4+	2+	3+
Number of Events	1	1	1	1	1	3+
Number of Locations	1	1	1	1	2+	3+
Cool-Off Period	N/A	N/A	N/A	N/A	No	Yes

in a mortuary. Their faces were covered and their arms were folded across their bodies. Each had been shot once behind the left ear, except one son who had been shot multiple times. A further search of the residence discovered the body of List's mother in a third floor closet. She had also been shot once behind the left ear. List disappeared after the crime and his car was found at an airport parking lot.

In another family killing case, William Bradford Bishop beat to death his wife, mother, and three children in the family's Bethesda, Maryland, residence in March 1976. He then transported them to North Carolina in the family station wagon where their bodies, along with the family dog's, were buried in a shallow grave. Bishop was under psychiatric care and had been prescribed antidepressant medication. No motive was determined. Bishop was a promising mid-level diplomat who had served in many overseas jobs and was scheduled for higher level office in the U.S. Department of State. Bishop, like List, is a Federal fugitive. There is strong indication both crimes were carefully planned and it is uncertain whether or not the men have committed suicide.

Two additional types of multiple murder are spree and serial. A spree murder involves killings at two or more locations with no emotional cooling-off time period between murders. The killings are all the result of a single event, which can be of short or long duration. On September 6, 1949, Camden, New Jersey, spree murderer Howard Unruh took a loaded German luger with extra ammunition and randomly fired the handgun while walking through his neighborhood, killing 13 people and wounding 3 in about 20 minutes. Even though Unruh's killings took such a short amount of time, they are not classified as a mass murder because he moved to different locations.

Serial murderers are involved in three or more separate events with an emotional cooling-off period between homicides. This type killer usually premeditates his crimes, often fantasizing and planning the murder in every aspect with the possible exception of the specific victim. Then, when the time is right for him and he is cooled off from his last homicide, he selects his next victim and proceeds with his plan. The cool-off period can be days, weeks, or months, and is the main element that separates the serial killer from other multiple killers.

However, there are other differences between the murderers. The classic mass murderer and the spree murderer are not concerned with who their victims are; they will kill anyone who comes in contact with them. In contrast, a serial murderer usually selects a type of victim. He thinks he will never be caught, and sometimes he is right. A serial murderer controls the events, whereas a spree murderer, who oftentimes has been identified and is being closely pursued by law enforcement, may barely control what will happen next. The serial killer is planning, picking and choosing, and sometimes stopping the act of murder.

A serial murderer may commit a spree of murders. In 1984, Christopher Wilder, an Australian-born businessman and race car driver, traveled across the United States killing young women. He would target victims at shopping malls or would abduct them after meeting them through a beauty contest setting or dating service. While a fugitive as a serial murderer, Wilder was investigated,

identified, and tracked by the FBI and almost every police department in the country. He then went on a long-term killing spree throughout the country and eventually was killed during a shoot-out with police.

Wilder's classification changed from serial to spree because of the multiple murders and the lack of a cooling-off period during his elongated murder event lasting nearly seven weeks. This transition has been noted in other serial/spree murder cases. The tension due to his fugitive status and the high visibility of his crimes gives the murderer a sense of desperation. His acts are now open and public and the increased pressure usually means no cooling-off period. He knows he will be caught, and the coming confrontation with police becomes an element in his crimes. He may place himself in a situation where he forces the police to kill him.

It is important to classify homicides correctly. For example, a single homicide is committed in a city; a week later a second single homicide is committed; and the third week, a third single homicide. Three seemingly unrelated homicides are reported, but by the time there is a fourth, there is a tie-in through forensic evidence and analyses of the crime scenes. These three single homicides now point to one serial offender. It is not mass murder because of the multiple locations and the cooling-off periods. The correct classification assists in profiling and directs the investigation as serial homicides. Similarly, profiling of a single murder may indicate the offender had killed before or would repeat the crime in the future.

Primary Intent of the Murderer

In some cases, murder may be an ancillary action and not itself the primary intent of the offender. The killer's primary intent could be: (1) criminal enterprise, (2) emotional, selfish, or cause-specific, or (3) sexual. The killer may be acting on his own or as part of a group.

When the primary intent is criminal enterprise, the killer may be involved in the business of crime as his livelihood. Sometimes murder becomes part of this business even though there is no personal malice toward the victim. The primary motive is money. In the 1950s, a young man placed a bomb in his mother's suitcase that was loaded aboard a commercial aircraft. The aircraft exploded, killing 44 people. The young man's motive had been to collect money from the travel insurance he had taken out on his mother prior to the flight. Criminal enterprise killings involving a group include contract murders, gang murders, competition murders, and political murders.

When the primary intent involves emotional, selfish, or cause-specific reasons, the murderer may kill in self-defense or compassion (mercy killings where life support systems are disconnected). Family disputes or violence may lie behind infanticide, matricide, patricide, and spouse and sibling killings. Paranoid reactions may also result in murder as in the previously described Whitman case. The mentally disordered murderer may commit a symbolic crime or have a psychotic outburst. Assassinations, such as those committed by Sirhan Sirhan and Mark Chapman, also fall into the emotional intent category. Murders in this

category involving groups are committed for a variety of reasons: religious (Jim Jones and the Jonestown, Guyana, case), cult (Charles Manson), and fanatical organizations such as the Ku Klux Klan and the Black Panther Party of the 1970s.

Finally, the murderer may have sexual motives for killing. Individuals may kill as a result of or to engage in sexual activity, dismemberment, mutilation, eversion, or other activities that have sexual meaning only for the offender. Occasionally, two or more murderers commit these homicides together as in the 1984-1985 case in Calaveras County, California, where Leonard Lake and Charles Ng are suspected of as many as 25 sex-torture slayings.

Victim Risk

The concept of the victim's risk is involved at several stages of the profiling process and provides information about the suspect in terms of how he or she operates. Risk is determined using such factors as age, occupation, lifestyle, physical stature, resistance ability, and location of the victim, and is classified as high, moderate, or low. Killers seek high-risk victims at locations where people may be vulnerable, such as bus depots or isolated areas. Low-risk types include those whose occupations and daily lifestyles do not lead them to being targeted as victims. The information on victim risk helps to generate an image of the type of perpetrator being sought.

Offender Risk

Data on victim risk integrates with information on offender risk, or the risk the offender was taking to commit the crime. For example, abducting a victim at noon from a busy street is high risk. Thus, a low-risk victim snatched under high-risk circumstances generates ideas about the offender, such as personal stresses he is operating under, his beliefs that he will not be apprehended, or the excitement he needs in the commission of the crime, or his emotional maturity.

Escalation

Information about escalation is derived from an analysis of facts and patterns from the prior decision process models. Investigative profilers are able to deduce the sequence of acts committed during the crime. From this deduction, they may be able to make determinations about the potential of the criminal not only to escalate his crimes (e.g., from peeping to fondling to assault to rape to murder), but to repeat his crimes in serial fashion. One case example is David Berkowitz, the Son of Sam killer, who started his criminal acts with the nonfatal stabbing of a teenage girl and who escalated to the subsequent .44-caliber killings.

Time Factors

There are several time factors that need to be considered in generating a criminal profile. These factors include the length of time required: (1) to kill the

victim, (2) to commit additional acts with the body, and (3) to dispose of the body. The time of day or night that the crime was committed is also important, as it may provide information on the lifestyle and occupation of the suspect (and also relates to the offender risk factor). For example, the longer an offender stays with his victim, the more likely it is he will be apprehended at the crime scene. In the case of the New York murder of Kitty Genovese, the killer carried on his murderous assault to the point where many people heard or witnessed the crime, leading to his eventual prosecution. A killer who intends to spend time with his victim therefore must select a location to preclude observation, or one with which he is familiar.

Location Factors

Information about location—where the victim was first approached, where the crime occurred, and if the crime and death scenes differ—provide yet additional data about the offender. For example, such information provides details about whether the murderer used a vehicle to transport the victim from the death scene or if the victim died at her point of abduction.

3. Crime Assessment Stage

The Crime Assessment Stage in generating a criminal profile involves the reconstruction of the sequence of events and the behavior of both the offender and victim. Based on the various decisions of the previous stage, this reconstruction of how things happened, how people behaved, and how they planned and organized the encounter provides information about specific characteristics to be generated for the criminal profile. Assessments are made about the classification of the crime, its organized/disorganized aspects, the offender's selection of a victim, strategies used to control the victim, the sequence of crime, the staging (or not) of the crime, the offender's motivation for the crime, and crime scene dynamics.

The classification of the crime is determined through the decision process outlined in the first decision process model. The classification of a crime as organized or disorganized, first introduced as classification of Lust murder (Hazelwood & Douglas, 1980), but since broadly expanded, includes factors such as victim selection, strategies to control the victim, and sequence of the crime. An organized murderer is one who appears to plan his murders, target his victims, display control at the crime scene, and act out a violent fantasy against the victim (sex, dismemberment, torture). For example, Ted Bundy's planning was noted through his successful abduction of young women from highly visible areas (e.g., beaches, campuses, a ski lodge). He selected victims who were young, attractive, and similar in appearance. His control of the victim was initially through clever manipulation and later physical force. These dynamics were important in the development of a desired fantasy victim.

In contrast, the disorganized murderer is less apt to plan his crime in detail,

obtains victims by chance, and behaves haphazardly during the crime. For example, Herbert Mullin of Santa Cruz, California, who killed 14 people of varying types (e.g., an elderly man, a young girl, a priest) over a four-month period, did not display any specific planning or targeting of victims; rather, the victims were people who happened to cross his path, and their killings were based on psychotic impulses as well as on fantasy.

The determination of whether or not the crime was staged (i.e., if the subject was truly careless or disorganized, or if he made the crime appear that way to distract or mislead the police) helps direct the investigative profiler to the killer's motivation. In one case, a 16-year-old high school junior living in a small town failed to return home from school. Police, responding to the father's report of his missing daughter, began their investigation and located the victim's scattered clothing in a remote area outside the town. A crude map was also found at the scene which seemingly implied a premeditated plan of kidnaping. The police followed the map to a location which indicated a body may have been disposed of in a nearby river. Written and telephoned extortion demands were sent to the father, a bank executive, for the sum of \$80,000, indicating that a kidnap was the basis of the abduction. The demands warned police in detail not to use electronic monitoring devices during their investigative efforts.

Was this crime staged? The question was answered in two ways. The details in one aspect of the crime (scattered clothing and tire tracks) indicated that subject was purposely staging a crime while the details in the other (extortion) led the profilers to speculate who the subject was; specifically that he had a law enforcement background and therefore had knowledge of police procedures concerning crimes of kidnaping, hiding the primary intent of sexual assault and possible murder. With this information, the investigative profilers recommended that communication continue between the suspect and the police, with the hypothesis that the behavior would escalate and the subject become bolder.

While further communications with the family were being monitored, profilers from the FBI's Behavioral Science Unit theorized that the subject of the case was a white male who was single, in his late 20's to early 30's, unemployed, and who had been employed as a law enforcement officer within the past year. He would be a macho outdoors type person who drove a late model, well maintained vehicle with a CB radio. The car would have the overall appearance of a police vehicle.

As the profile was developed, the FBI continued to monitor the extortion telephone calls made to the family by the subject. The investigation, based on the profile, narrowed to two local men, both of whom were former police officers. One suspect was eliminated, but the FBI became very interested in the other since he fit the general profile previously developed. This individual was placed under surveillance. He turned out to be a single, white male who was previously employed locally as a police officer. He was now unemployed and drove a car consistent with the FBI profile. He was observed making a call from a telephone booth, and after hanging up, he taped a note under the telephone. The call was traced to the residence of the victim's family. The caller had given instructions

for the family to proceed to the phone booth the suspect had been observed in. "The instructions will be taped there," stated the caller.

The body of the victim was actually found a considerable distance from the "staged" crime scene, and the extortion calls were a diversion to intentionally lead the police investigation away from the sexually motivated crime of rape-murder. The subject never intended to collect the ransom money, but he felt that the diversion would throw the police off and take him from the focus of the rape-murder inquiry. The subject was subsequently arrested and convicted of this crime.

Motivation

Motivation is a difficult factor to judge because it requires dealing with the inner thoughts and behavior of the offender. Motivation is more easily determined in the organized offender who premeditates, plans, and has the ability to carry out a plan of action that is logical and complete. On the other hand, the disorganized offender carries out his crimes by motivations that frequently are derived from mental illnesses and accompanying distorted thinking (resulting from delusions and hallucinations). Drugs and alcohol, as well as panic and stress resulting from disruptions during the execution of the crime, are factors which must be considered in the overall assessment of the crime scene.

Crime Scene Dynamics

Crime scene dynamics are the numerous elements common to every crime scene which must be interpreted by investigating officers and are at times easily misunderstood. Examples include location of crime scene, cause of death, method of killing, positioning of body, excessive trauma, and location of wounds.

The investigative profiler reads the dynamics of a crime scene and interprets them based on his experience with similar cases where the outcome is known. Extensive research by the Behavioral Science Unit at the FBI Academy and in-depth interviews with incarcerated felons who have committed such crimes have provided a vast body of knowledge of common threads that link crime scene dynamics to specific criminal personality patterns. For example, a common error of some police investigators is to assess a particularly brutal lust-mutilation murder as the work of a sex fiend and to direct the investigation toward known sex offenders when such crimes are commonly perpetrated by youthful individuals with no criminal record.

4. Criminal Profile Stage

The fourth stage in generating a criminal profile deals with the type of person who committed the crime and that individual's behavioral organization with relation to the crime. Once this description is generated, the strategy of investigation can be formulated, as this strategy requires a basic understanding of how an individual will respond to a variety of investigative efforts.

Included in the criminal profile are background information (demographics),

physical characteristics, habits, beliefs and values, pre-offense behavior leading to the crime, and post-offense behavior. It may also include investigative recommendations for interrogating or interviewing, identifying, and apprehending the offender.

This fourth stage has an important means of validating the criminal profile—Feedback No. 1. The profile must fit with the earlier reconstruction of the crime, with the evidence, and with the key decision process models. In addition, the investigative procedure developed from the recommendations must make sense in terms of the expected response patterns of the offender. If there is a lack of congruence, the investigative profilers review all available data. As Hercule Poirot observed, "To know is to have all of the evidence and facts fit into place."

5. Investigation Stage

Once the congruence of the criminal profile is determined, a written report is provided to the requesting agency and added to its ongoing investigative efforts. The investigative recommendations generated in Stage 4 are applied, and suspects matching the profile are evaluated. If identification, apprehension, and a confession result, the goal of the profile effort has been met. If new evidence is generated (e.g., by another murder) and/or there is no identification of a suspect, reevaluation occurs via Feedback No. 2. The information is reexamined and the profile revalidated.

6. Apprehension Stage

Once a suspect is apprehended, the agreement between the outcome and the various stages in the profile-generating-process are examined. When an apprehended suspect admits guilt, it is important to conduct a detailed interview to check the total profiling process for validity.

CASE EXAMPLE

A young woman's nude body was discovered at 3:00 p.m. on the roof landing of the apartment building where she lived. She had been badly beaten about the face and strangled with the strap of her purse. Her nipples had been cut off after death and placed on her chest. Scrawled in ink on the inside of her thigh was, "You can't stop me." The words "Fuck you" were scrawled on her abdomen. A pendant in the form of a Jewish sign (Chai), which she usually wore as a good luck piece around her neck, was missing and presumed taken by the murderer. Her underpants had been pulled over her face; her nylons were removed and very loosely tied around her wrists and ankles near a railing. The murderer had placed symmetrically on either side of the victim's head the pierced earrings she had been wearing. An umbrella and inkpen had been forced into the vagina and a hair comb was placed in her pubic hair. The woman's jaw and nose had been broken and her molars loosened. She suffered multiple face fractures caused by a blunt force. Cause of death was asphyxia by ligature (pocketbook strap)

strangulation. There were post-mortem bite marks on the victim's thighs, as well as contusions, hemorrhages, and lacerations to the body. The killer also defecated on the roof landing and covered it with the victim's clothing.

The following discussion of this case in the context of the six stages of the criminal-profile-generating process illustrates how this process works.

Profiling Inputs

In terms of *crime scene evidence*, everything the offender used at the crime scene belonged to the victim. Even the comb and the felt-tip pen used to write on her body came from her purse. The offender apparently did not plan this crime; he had no gun, ropes, or tape for the victim's mouth. He probably did not even plan to encounter her that morning at that location. The crime scene indicated a spontaneous event; in other words, the killer did not stalk or wait for the victim. The crime scene differs from the death scene. The initial abduction was on the stairwell; then the victim was taken to a more remote area.

Investigation of the *victim* revealed that the 26-year-old, 90-pound, 4'11" white female awoke around 6:30 a.m. She dressed, had a breakfast of coffee and juice, and left her apartment for work at a nearby day care center, where she was employed as a group teacher for handicapped children. She resided with her mother and father. When she would leave for work in the morning, she would take the elevator or walk down the stairs, depending on her mood. The victim was a quiet young woman who had a slight curvature of the spine (kyhosciosis).

The *forensic information* in the medical examiner's report was important in determining the extent of the wounds, as well as how the victim was assaulted and whether evidence of sexual assault was present or absent. No semen was noted in the vagina, but semen was found on the body. It appeared that the murderer stood directly over the victim and masturbated. There were visible bite marks on the victim's thighs and knee area. He cut off her nipples with a knife after she was dead and wrote on the body. Cause of death was strangulation, first manual, then ligature, with the strap of her purse. The fact that the murderer used a weapon of opportunity indicates that he did not prepare to commit this crime. He probably used his fist to render her unconscious, which may be the reason no one heard any screams. There were no deep stab wounds and the knife used to mutilate the victim's breast apparently was not big, probably a penknife that the offender normally carried. The killer used the victim's belts to tie her right arm and right leg, but he apparently untied them in order to position the body before he left.

The *preliminary police report* revealed that another resident of the apartment building, a white male, aged 15, discovered the victim's wallet in a stairwell between the third and fourth floors at approximately 8:20 a.m. He retained the wallet until he returned home from school for lunch that afternoon. At that time, he gave the wallet to his father, a white male, aged 40. The father went to the victim's apartment at 2:50 p.m. and gave the wallet to the victim's mother.

When the mother called the day care center to inform her daughter about the

wallet, she learned that her daughter had not appeared for work that morning. The mother, the victim's sister, and a neighbor began a search of the building and discovered the body. The neighbor called the police. Police at the scene found no witnesses who saw the victim after she left her apartment that morning.

Decision Process

This crime's *style* is a single homicide with the murderer's primary intent making it a sexually motivated *type* of crime. There was a degree of *planning* indicated by the organization and sophistication of the crime scene. The idea of murder had probably occupied the killer for a long period of time. The sexual fantasies may have started through the use and collecting of sadistic pornography depicting torture and violent sexual acts.

Victim risk assessment revealed that the victim was known to be very self-conscious about her physical handicap and size and she was a plain-looking woman who did not date. She led a reclusive life and was not the type of victim that would or could fight an assailant or scream and yell. She would be easily dominated and controlled, particularly in view of her small stature.

Based upon the information on occupation and lifestyle, we have a low-risk victim living in an area that was at low risk for violent crimes. The apartment building was part of a 23-building public housing project in which the racial mixture of residents was 50% black, 40% white, and 10% Hispanic. It was located in the confines of a major police precinct. There had been no other similar crimes reported in the victim's or nearby complexes.

The crime was considered very *high risk* for the offender. He committed the crime in broad daylight, and there was a possibility that other people who were up early might see him. There was no set pattern of the victim taking the stairway or the elevator. It appeared that the victim happened to cross the path of the offender.

There was no *escalation* factor present in this crime scene. The *time* for the crime was considerable. The amount of time the murderer spent with his victim increased his risk of being apprehended. All his activities with the victim—removing her earrings, cutting off her nipples, masturbating over her—took a substantial amount of time.

The *location* of the crime suggested that the offender felt comfortable in the area. He had been here before, and he felt that no one would interrupt the murder.

Crime Assessment

The crime scene indicated the murder was one event, not one of a series of events. It also appeared to be a first-time killing, and the subject was not a typical organized offender. There were elements of both disorganization and organization; the offender might fall into a mixed category.

A reconstruction of the crime/death scene provides an overall picture of the

crime. To begin with, the victim was not necessarily stalked but instead confronted. What was her reaction? Did she recognize her assailant, fight him off, or try to get away? The subject had to kill her to carry out his sexually violent fantasies. The murderer was on known territory and thus had a reason to be there at 6:30 in the morning: either he resided there or he was employed at this particular complex.

The killer's control of the victim was through the use of blunt force trauma, with the blow to her face the first indication of his intention. It is probable the victim was selected because she posed little or no threat to the offender. Because she didn't fight, run, or scream, it appears that she did not perceive her abductor as a threat. Either she knew him, had seen him before, or he looked nonthreatening (i.e., he was dressed as a janitor, a postman, or businessman) and therefore his presence in the apartment would not alarm his victim.

In the sequence of the crime, the killer first rendered the victim unconscious and possibly dead; he could easily pick her up because of her small size. He took her up to the roof landing and had time to manipulate her body while she was unconscious. He positioned the body, undressed her, acted out certain fantasies which led to masturbation. The killer took his time at the scene, and he probably knew that no one would come to the roof and disturb him in the early morning since he was familiar with the area and had been there many times in the past.

The crime scene was not staged. Sadistic ritualistic fantasy generated the sexual motivation for murder. The murderer displayed total domination of the victim. In addition, he placed the victim in a degrading posture, which reflected his lack of remorse about the killing.

The crime scene dynamics of the covering of the killer's feces and his positioning of the body are incongruent and need to be interpreted. First, as previously described, the crime was opportunistic. The crime scene portrayed the intricacies of a long-standing murderous fantasy. Once the killer had a victim, he had a set plan about killing and abusing the body. However, within the context of the crime, the profilers note a paradox: the covered feces. Defecation was not part of the ritual fantasy and thus it was covered. The presence of the feces also supports the length of time taken for the crime, the control the murderer had over the victim (her unconscious state), and the knowledge he would not be interrupted.

The positioning of the victim suggested the offender was acting out something he had seen before, perhaps in a fantasy or in a sado-masochistic pornographic magazine. Because the victim was unconscious, the killer did not need to tie her hands. Yet he continued to tie her neck and strangle her. He positioned her earrings in a ritualistic manner, and he wrote on her body. This reflects some sort of imagery that he probably had repeated over and over in his mind. He took her necklace as a souvenir; perhaps to carry around in his pocket. The investigative profilers noted that the body was positioned in the form of the woman's missing Jewish symbol.

Criminal Profile

Based on the information derived during the previous stages, a criminal profile of the murderer was generated. First, a physical description of the suspect stated that he would be a white male, between 25 and 35, or the same general age as the victim, and of average appearance. The murderer would not look out of context in the area. He would be of average intelligence and would be a high-school or college dropout. He would not have a military history and may be unemployed. His occupation would be blue-collar or skilled. Alcohol or drugs did not assume a major role, as the crime occurred in the early morning.

The suspect would have difficulty maintaining any kind of personal relationships with women. If he dated, he would date women younger than himself, as he would have to be able to dominate and control in the relationships.

He would be sexually inexperienced, sexually inadequate, and never married. He would have a pornography collection. The subject would have sadistic tendencies; the umbrella and the masturbation act are clearly acts of sexual substitution. The sexual acts showed controlled aggression, but rage or hatred of women was obviously present. The murderer was not reacting to rejection from women as much as to morbid curiosity.

In addressing the habits of the murderer, the profile revealed there would be a reason for the killer to be at the crime scene at 6:30 in the morning. He could be employed in the apartment complex, be in the complex on business, or reside in the complex.

Although the offender might have preferred his victim conscious, he had to render her unconscious because he did not want to get caught. He did not want the woman screaming for help.

The murderer's infliction of sexual, sadistic acts on an inanimate body suggests he was disorganized. He probably would be a very confused person, possibly with previous mental problems. If he had carried out such acts on a living victim, he would have a different type of personality. The fact that he inflicted acts on a dead or unconscious person indicated his inability to function with a live or conscious person.

The crime scene reflected that the killer felt justified in his actions and that he felt no remorse. He was not subtle. He left the victim in a provocative, humiliating position, exactly the way he wanted her to be found. He challenged the police in his message written on the victim; the messages also indicated the subject might well kill again.

Investigation

The crime received intense coverage by the local media because it was such an extraordinary homicide. The local police responded to a radio call of a homicide. They in turn notified the detective bureau, which notified the forensic crime scene unit, medical examiner's office, and the county district attorney's

office. A task force was immediately assembled of approximately 26 detectives and supervisors.

An intensive investigation resulted, which included speaking to, and interviewing, over 2,000 people. Records checks of known sex offenders in the area proved fruitless. Hand writing samples were taken of possible suspects to compare with the writing on the body. Mental hospitals in the area were checked for people who might fit the profile of this type killer.

The FBI's Behavioral Science Unit was contacted to compile a profile. In the profile, the investigation recommendation included that the offender knew that the police sooner or later would contact him because he either worked or lived in the building. The killer would somehow inject himself into the investigation, and although he might appear cooperative to the extreme, he would really be seeking information. In addition, he might try to contact the victim's family.

Apprehension

The outcome of the investigation was apprehension of a suspect 13 months following the discovery of the victim's body. After receiving the criminal profile, police reviewed their files of 22 suspects they had interviewed. One man stood out. This suspect's father lived down the hall in the same apartment building as the victim. Police originally had interviewed his father, who told them his son was a patient at the local psychiatric hospital. Police learned later that the son had been absent without permission from the hospital the day and evening prior to the murder.

They also learned he was an unemployed actor who lived alone; his mother had died of a stroke when he was 19 years old (11 years previous). He had had academic problems of repeating a grade and dropped out of school. He was a white, 30-year-old, never-married male who was an only child. His father was a blue-collar worker who also was an ex-prize fighter. The suspect reportedly had his arm in a cast at the time of the crime. A search of his room revealed a pornography collection. He had never been in the military, had no girlfriends, and was described as being insecure with women. The man suffered from depression and was receiving psychiatric treatment and hospitalization. He had a history of repeated suicidal attempts (hanging/asphyxiation) both before and after the offense.

The suspect was tried, found guilty, and is serving a sentence from 25 years to life for this mutilation murder. He denies committing the murder and states he did not know the victim. Police proved that security was lax at the psychiatric hospital in which the suspect was confined and that he could literally come and go as he pleased. However, the most conclusive evidence against him at his trial were his teeth impressions. Three separate forensic dentists, prominent in their field, conducted independent tests and all agreed that the suspect's teeth impressions matched the bite marks found on the victim's body.

CONCLUSION

Criminal personality profiling has proven to be a useful tool to law enforcement in solving violent, apparently motiveless crimes. The process has aided significantly in the solution of many cases over the past decade. It is believed that through the research efforts of personnel in the FBI's National Center for the Analysis of Violent Crime and professionals in other field, the profiling process will continue to be refined and be a viable investigative aid to law enforcement.

REFERENCES

- Brussel, J. S. (1968). *Casebook of a crime psychiatrist*. New York: Grove.
- Casey-Owens, M. (1984). The anonymous letter-writer—a psychological profile? *Journal of Forensic Sciences*, 29, 816-819.
- Christie, A. (1963). *The clocks* (pp. 227-228). New York: Pocket Books.
- Geberth, V. J. (1981, September). Psychological profiling. *Law and Order*, pp. 46-49.
- Hazelwood, R. R. (1983, September). The behavior-oriented interview of rape victims: The key to profiling. *FBI Law Enforcement Bulletin*, pp. 1-8.
- Hazelwood, R. R. & Douglas, J. E. (1980, April). The lust murderer. *FBI Law Enforcement Bulletin*.
- Lunde, D. T. (1976). *Murder and madness*. San Francisco, CA: San Francisco Book Co.
- Miron, M. S., & Douglas, J. E. (1979, September). Threat analysis: The psycholinguistic approach. *FBI Law Enforcement Bulletin*, pp. 5-9.
- Palmer, S. (1960). *A Study of murder*. New York: Thomas Crowell.
- Reiser, M. (1982, March). Crime-specific psychological consultation. *The Police Chief*, pp. 53-56.
- Ressler, R. K., Burgess, A. W., Douglas, J. E., & Depue, R. L. (1985). Criminal profiling research on homicide. In A. W. Burgess (Ed.), *Rape and sexual assault: A research handbook* (pp. 343-349). New York: Garland.
- Rider, A. O. (1980, June). The firesetter: A psychological profile, part I. *FBI Law Enforcement Bulletin*, pp. 6-13.
- Rizzo, N. D. (1982). Murder in Boston: Killers and their victims. *International Journal of Offender Therapy and Comparative Criminology*, 26(1), 36-42.
- Rossi, D. (1982, January). Crime scene behavioral analysis: Another tool for the law enforcement investigator. Official proceedings of the 88th Annual IACP Conference, *The Police Chief*, pp. 152-155.
- Vorpagel, R. E. (1982, January). Painting psychological profiles: Charlatanism, charisma, or a new science? Official proceedings of the 88th Annual IACP Conference, *The Police Chief*, pp. 156-159.



The question remained as to whether incarcerated offenders would cooperate in such research. In order to determine the feasibility of the intended study, a pilot project was undertaken. Crimes in which the FBI either has primary jurisdiction or has traditionally assisted local agencies by providing technical assistance and special expertise, such as hostage/terrorism, skyjacking, extortion/kidnaping, assassination, and mass/multiple murder, were targeted for study. Guidelines were formulated in conjunction with the Legal Instruction Unit of the FBI Academy.

Eight convicted offenders were then approached and asked if they would be willing to be interviewed about their crimes. They were long-term incarcerated felons lodged in various State and Federal penitentiaries and were selected for the gravity of their violent crimes. The results were very encouraging. Based on this response, plans were developed for an



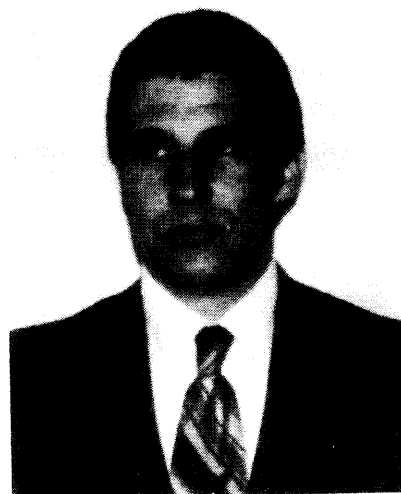
During the 1979 Fiesta Parade in San Antonio, Tex., a sniper, who was a former mental patient, killed 2 persons and injured 51 others, including 13 children and 6 policemen. Photos depict shooting scene and arsenal used by the sniper. Insight into the psychological behavior of persons involved in such crimes is the overall goal of this research program.



Dr. Burgess



Dr. Groth



Special Agent Ressler

extended, ongoing systematic study of convicted offenders in order to better understand the patterns and dynamics of criminal behavior. Sexual homicide was selected as the initial area of primary focus and concentration because it is a lethal type of crime that attracts a great deal of public attention.

Background of FBI Profiling

For the past few years, efforts at developing psychological profiles of suspects for individual cases of sexual assault/homicide have been undertaken by members of the Behavioral Science Unit.¹ These cases were referred to the unit by local police departments. From the available evidence and information, unit members developed a psychological composite of the suspect. The approach is one of brainstorming, intuition, and educated guesswork. The product was the result of years of accumulated investigative experience in the field and familiarity

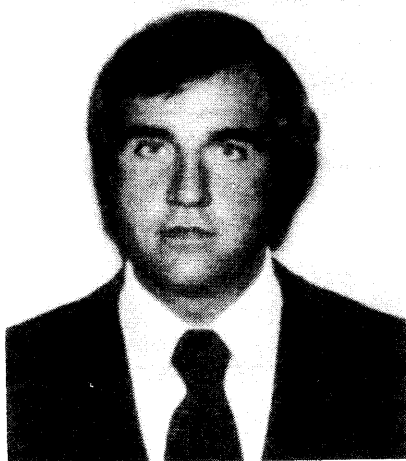
with a large number of cases. No formal data bank, however, has been developed against which new cases can systematically be compared. Also, there is little or no followup once an offender has been successfully apprehended and convicted. Consequently, there is very little subsequent input of information which would serve to sharpen and refine the existing body of knowledge.

Given the opportunity to interview identified offenders and realizing the need to develop a protocol to insure systematic retrieval of pertinent data, the Training Division engaged the services of Dr. A. Nicholas Groth and Dr. Ann Wolbert Burgess, two experts in the field of sexual assault who had been conducting specialized police schools on rape and child molestation for law enforcement agents at the FBI Academy. This professional affiliation provided a multidisciplinary approach to the study of the sex murderer, combining contributions from both law enforcement and the behavioral sciences.

From a review of the pertinent literature and from the direct, firsthand field experience and prior work of the researchers, this team proceeded to develop a data schedule for investigative inquiry and offender assessment.

This instrument provided not only guidelines for interviewing subjects but also a system of recording and coding relevant data to permit computer analysis and retrieval. This protocol (which continues to undergo revision and refinement) is divided into five sections: (1) Physical characteristics of the offender, (2) background development, (3) offense data, (4) victim data, and (5) crime scene data. It encompasses the offender's physical description, medical/psychiatric history, early home life and upbringing, schooling, military service, occupation/vocational history, sexual development and marital history, recreational interests, criminal history, the characteristics of his offense, modus operandi, victim selection, and the scene of his crime.

Once the assessment schedule had been designed, it was administered to three groups of sexual offenders—sex murderers, rapists and child molesters, and sex offenders confined to a mental health facility. During the first year (1979) of the study, interviews with 26 men who were convicted of a



Special Agent Douglas



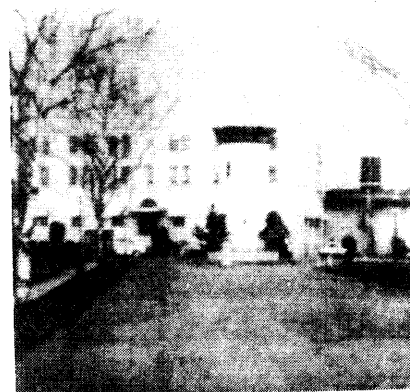
Edmund E. Kemper, a mass murderer, is interviewed by SA Douglas.

sex-related homicide and were incarcerated in various institutions across the country were completed. The second group—rapists and child molesters incarcerated in a maximum security prison—consisted of approximately 125 adult male offenders who were administered the interview schedule. These subjects were equally divided between those who had sexually assaulted adults and those who had sexually assaulted children. Sex offenders committed to a security treatment (mental health) facility following conviction but prior to disposition comprised the third group. Approximately 100 men were interviewed, again equally divided between rapists and child molesters.

Computer programs were then written to process the data. It is anticipated that as this body of data accumulates, it will provide information about a number of issues pertaining to the sexual offender.

Interestingly, institution officials have been supportive of the research investigation efforts, and the offenders themselves have been very receptive to our solicitation for their help and participation in this study. Although a few have denied or minimized their culpability, the majority have provided information consistent with the known facts of the case.

What prompts convicted offenders to cooperate with law enforcement agents? A variety of reasons exist. For those troubled by what they have done, cooperation may be an effort to gain some perspective and understanding of their behavior or an effort to compensate and make some type of restitution. Others, especially if they feel forgotten or ignored, may respond to the fact that someone is paying attention and showing some interest in them. A selected number of multiple murderers appear to be fascinated with law enforcement, as evidenced by their attempts to become identified with the profession, i.e., posing as law enforcement officers, holding positions such as security guards or auxiliary police, etc. These offenders welcome an opportunity to again associate themselves with investigative efforts. Some may expect that cooperation will result in favors or benefits; others may feel



Selected inmates of the Oregon State Penitentiary participated in the research program.

they have nothing to lose, since all their appeals have been exhausted and no realistic hope for parole or pardon exists. Finally, others may participate in the study because it provides an opportunity to dwell on and recapture the fantasies, memories, and accompanying feelings of the original offense. Whatever their reasons, noble or selfish, healthy or pathological, each in his own way contributes something toward understanding the variety and complexity of this category of crime.

Statistical Procedure

The reliability and the validity of the data retrieved from the study of these offenders will ultimately be tested by the accuracy with which predoc-trines (offender profiles) derived from this data pool are fulfilled. It is from these data that various types of offender profiles are beginning to emerge. Although no two offenders are exactly alike, and there is a wide range of individual differences found among offenders who commit similar offenses, they also share some similarities or common traits. It will be both these important differences and the important similarities that serve to differentiate and identify different kinds or specific types of offenders within the same offense category.

Goals and Purposes of Program

This criminal personality research program is designed to contribute to advances in the study of sexual homicide—a subject about which little dependable information is currently available—by establishing a national data bank from which reliable information can be retrieved. From the data derived from this research, offender

profiles will be developed based on identifiable behaviors, traits, and characteristics. The profiles, in turn, will aid local law enforcement agencies in the investigation of the crime and the identification and apprehension of offenders. In addition, such profiles and related information will serve to improve interrogation techniques and interviewing skills and to identify those techniques which will be most productive with each type of offender.

Knowledge gleaned from this research will have important implications

study, which addresses sexual assault, is unique in that it represents the combined approaches of law enforcement/criminal justice and behavioral science/mental health professionals, as well as active participation and direct contribution from convicted felons, to combat this major type of serious crime.

FBI

Footnote

¹Richard L. Ault, Jr. and James T. Reese. "A Psychological Assessment of Crime: Profiling." *FBI Law Enforcement Bulletin*, vol. 49, No. 3, March 1980, pp. 22-25.

“... an extended, ongoing systematic study of convicted offenders [was initiated] in order to better understand the patterns and dynamics of criminal behavior”

for crime prevention by identifying important biopsychosocial factors of an offender. It will assist by attempting to provide answers to such questions as:

- 1) What leads a person to become a sexual offender and what are the early warning signals?
- 2) What serves to encourage or to inhibit the commission of his offense?
- 3) What types of response or coping strategies by an intended victim are successful with what type of sexual offender in avoiding victimization?
- 4) What are the implications for his dangerousness, prognosis, disposition, and mode of treatment?

Current emphasis is on the rape-murderer, since the Training Division receives annually close to 100 unsolved, sex-related homicides for review and analysis. This research program is envisioned as ultimately expanding to encompass a broader variety of felony crimes to include hostagetaking and techniques to improve hostage negotiation. A further benefit will be the improvement of techniques of interviewing, interrogation, and informant targeting in criminal and espionage matters. The present

A Psychological Assessment of Crime **PROFILING**

By RICHARD L. AULT, JR. and JAMES T. REESE

*Special Agents
Behavioral Science Unit
FBI Academy, Quantico, Va.*

Editor's Note: As an adjunct to its instructional programs in abnormal psychology, the Behavioral Science Unit, FBI Academy, Quantico, Va., has attempted to assist the law enforcement community in the preparation of psychological profiles in selected unsolved criminal cases. "A Psychological Assessment of Crime: Profiling" is the introductory article in a three-part series of reports on the use of psychological criminal analysis as an investigative technique. Subsequent articles will feature the specific application of this technique to lust murderer and arson-for-profit investigations.

During the summer of 1979, a woman in a suburban city on the east coast reported to the police that she had been raped. After learning the facts of this case, the investigating officer realized that this was the seventh rape within the past 2 years wherein the same *modus operandi* was used. There were no investigative leads remaining in any of these incidents. The investigation conducted thus far had yielded no suspect.

The incident reports, together with transcripts of interviews with the victims, were forwarded to the FBI Training Division with a request from the police department that a psychological profile of the suspect or suspects be provided. After careful examination of the submitted materials by the FBI Academy's Behavioral Science Unit, a psychological profile was constructed and provided to the requesting agency. The Behavioral Science Unit advised that these rapes were probably committed by the same person and described him as a white male, 25 to 35 years of age (most likely late 20's or



early 30's), divorced or separated, working at marginal employment (laborer, etc.), high school education, poor self-image, living in the immediate area of the rapes, and being involved in crimes of voyeurism (peeping tom). It was likely that the police had talked to the rapist in the past due to his being on the streets in the neighborhood in the early morning hours.

Three days after receiving the profile provided to them, the requesting agency developed approximately 40 suspects in the neighborhood who met the age criteria. Using additional information in the profile, they narrowed their investigation to one individual and focused their investigation on him. He was arrested within a week. This case demonstrates how psychological profiling can be of assistance.

The role of the police officer in American society has never been accurately defined. Daily, it seems, police are burdened with new responsibilities and are required to be experts in responsibilities already assigned to them.¹ There has, in recent years, been an increase in the public's awareness of the nature of police work. This additional insight has been provided primarily through the use of the media (TV, books, newspapers); however, this awareness is largely focused upon the police function of investigating crimes. Studies have indicated that criminal investigations actually occupy less than 15 percent of the police department's time.² The irony of this is that the function of investigating and solving crimes is extremely important to the public at large and is a major gage by which departments are rated by city officials who provide funding. This is especially true when a crime is committed which is so bizarre and shocking to the community that the public demands swift and positive action.

As the crime rate grows in this country and the criminals become more sophisticated, the investigative tools of the police officer must also become more sophisticated. One such sophisticated tool does exist and may help answer the question commonly voiced by police and others at the scene of a violent crime, "Who would do a thing like this?" This tool is the psychological assessment of crime—profiling.

The solution of crimes is the most difficult task for the police. The officer must arrive at the scene of a crime, work backward in an effort to reconstruct that crime, formulate a hypothesis of what occurred, and then launch an orderly and logical investigation to determine the identity of the criminal. During this process, items of evidence are carefully collected, identified, initialed, logged, and packaged for later examination, perhaps under laboratory conditions.

The purpose of this article is to acquaint the police officer with the fact that there are certain clues at a crime scene which, by their very nature, do not lend themselves to being collected or examined, and to familiarize the officer with the concepts of profiling. Clues left at a crime scene may be of inestimable value in leading to the solution of the crime; however, they are not necessarily items of physical evidence. For example, how does a police officer collect rage, hatred, fear, love, irrationality, or other intangibles? These aspects may be present at the crime scene but the untrained officer will miss them. Nothing can take the place of a well-executed investigation; however, the use of psychology to assist in the assessment of a crime is an additional tool which the police officer should use in solving crimes.

The purpose of the psychological assessment of a crime scene is to produce a profile; that is, to identify and interpret certain items of evidence at the crime scene which would be indicative of the personality type of the individual or individuals committing the crime. The term "profile" is defined in *Webster's Dictionary of the American Language* (1968)³ as "a short, vivid

biography briefly outlining the most outstanding characteristics of the subject." The goal of the profiler is to provide enough information to investigators to enable them to limit or better direct their investigations. For example, in one case, a profile provided enough information that officers recalled an individual whom they had already questioned that fit the profile description. When they returned to the individual, he confessed.

The officer must bear in mind that the profile is not an exact science and a suspect who fits the description is not automatically guilty. The use of profiling does not replace sound investigative procedures.

Profiling is not a new concept. During World War II, the Office of Strategic Services (OSS) employed a psychiatrist, William Langer, to profile Adolf Hitler. Langer assembled all that was known about Hitler at the time, and based upon the information he received, attempted a long-range "diagnosis," as well as some predictions about how Hitler would react to defeat.⁴

Police officers are often carefully trained in the techniques of crime scene searches. Forensic scientists constantly provide law enforcement personnel with the results of research which enable officers to maintain and update skills in gathering physical evidence. The concept of profiling works in harmony with the search for physical evidence. Behavioral scientists are busy in their attempts to research and catalog nonphysical items of evidence, such as rage, hatred, fear, and love. However, these attempts are usually oriented toward therapy rather than forensic applications.⁵ Nonetheless, the results may be applied to teach police officers to recognize the existence of these emotions and other personality traits in a crime scene. Once recognized, police may then construct a profile of the type of person who might possess these emotions and/or personality traits.

The basis for profiling is nothing more than the understanding of current principles of behavioral sciences, such as psychology, sociology, criminology, and political science.

Behavioral science is, at best, an inclusive science. It is often referred to as an "art form."⁶ However, its use does have validity in law enforcement. Human behavior is much too complex to classify, yet attempts are often made to do so with the hope that such a vastly complicated system can be brought into some control. The Diagnostic and Statistical Manual of Mental Disorders (DSM II), used by mental health professionals, is one example of this attempt.⁷ While attempts to neatly classify behavior are mostly unsuccessful, one must remember why these attempts are made. There are many types of "normal" and "abnormal" behavior.⁸ Many of these behaviors may have a label attached to them by behavioral scientists. It is most important to bear in mind that such a label is merely an abbreviated way to describe a behavior pattern. It is nothing more than a convenience by which professionals communicate. The important aspect is the specific characteristics or symptoms of each person. The symptoms are revealed in the way the individual "acts out" and in the responses which the individual may make to the professional. The labels may differ from doctor to doctor because they are simply each doctor's interpretation of the symptom.

A symptom, then, is the "visible evidence of a disease or disturbance,"⁹ and a crime, particularly a bizarre crime, is as much a symptom as any other type of acting out by an individual. A crime may reflect the personality characteristics of the perpetrator in much the same fashion as the way we keep and decorate our homes reflects something about our personality.¹⁰

A crime scene is usually confined to the area in which the crime was committed. For the purposes of this article, the term crime scene includes the following: The scene of the crime; the victim of the crime, as in the case of rape; and all other locations involved in the crime, including such areas as the recovery site when a homicide is committed in one location and the body deposited in another.

The victim is one of the most important aspects of the psychological profile. In cases involving a surviving victim, particularly a rape victim, the perpetrator's exact conversation with the victim is of utmost importance and can play a very large role in the construction of an accurate profile.

The profile is not all inclusive and does not always provide the same information from one profile to another. It is based on what was or was not left at the crime scene. Since the amount of psychological evidence varies, as does physical evidence, the profile may also vary. The profile information may include:

- 1) The perpetrator's race,
- 2) Sex,
- 3) Age range,
- 4) Marital status,
- 5) General employment,
- 6) Reaction to questioning by police,
- 7) Degree of sexual maturity,
- 8) Whether the individual might strike again,
- 9) The possibility that he/she has committed a similar offense in the past, and
- 10) Possible police record.

These profiles are not the result of magical incantations and are not always accurate. It is the application of behavioral science theory and research to the profiler's knowledge of patterns which may be present at various crime scenes.¹¹ It is important that the profiler have wide exposure to crime scenes so that he may see that these patterns may exist. It is also important that the individual attempting to profile crime scenes have some exposure to those criminals who have committed similar crimes.

The entire basis for a good profile is a good crime scene examination and adequate interviews of victims and witnesses. When officers find individuals who are willing to attempt psychological evaluations of crime scenes, they often ask the profiler what materials should be sent to him. Necessary items for a psychological profile include:

1) Complete photographs of the crime scene, including photographs of the victim if it is a homicide. Also helpful is some means of determining the angle from which the photographs were taken and a general description of the immediate area. One enterprising police officer developed the excellent technique of photocopying his crime scene sketch, attaching one copy to each photo, and then outlining in red the area which was included in the photograph.

2) The completed autopsy protocol including, if possible, any results of lab tests which were done on the victim.

3) A complete report of the incident to include such standard details as date and time of offense, location (by town as well as by actual site of incident), weapon used (if known), investigative officers' reconstruction of the sequence of events (if any), and a detailed interview of any surviving victims or witnesses. These items are usually a part of all investigations and do not generally require extra report writing or extra written material. Also included in most investigative reports is background information on the victim(s). Yet, this seems to be the area where the least amount of information is available to the profiler. Usually, this is because the investigative officer cannot possibly write down all of the many details concerning the victim which he collects while investigating the crime.

When the investigator provides information concerning a victim to a profiler, some items which the officer should include are:

- 1) Occupation (former and present),
- 2) Residence (former and present),
- 3) Reputation, at work and in his neighborhood,
- 4) Physical description, including dress at the time of the incident,
- 5) Marital status, including children and close family members,
- 6) Educational level,
- 7) Financial status, past and present,
- 8) Information and background of victim's family and parents, including victim's relationship with parent,
- 9) Medical history, both physical and mental,
- 10) Fears,
- 11) Personal habits,
- 12) Social habits,
- 13) Use of alcohol and drugs,
- 14) Hobbies,
- 15) Friends and enemies,
- 16) Recent changes in life-style, and
- 17) Recent court action.

The primary psychological evidence which the profiler is looking for is motive. After a survey of the evidence, the profiler applies an age-old rule known as "Ockham's razor" which, originally stated, is "what can be done with fewer assumptions is done in vain with more."¹² This 14th century philosophy has, in investigative circles, generally come to mean that given a problem with several alternative solutions, the most obvious answer is usually correct. An aid to the application of Ockham's razor is the intangible evidence that the observer gathers from the crime scene to tell him such things as whether the crime appears to be planned or whether it is the result of an irrational thought process.

Profiling is a valuable investigative tool but is not a magical process. Police officers do a great deal of profiling during the course of their work days. They constantly build mental images or profiles based upon crime scenes and then use these profiles in an attempt to limit the scope of their investigations. These profiles are based upon the officer's extensive knowledge of the type of crime he is investigating. When a crime so bizarre that it is out of the scope of the officer's experience occurs, there are behavioral scientists available who can assist by providing these types of profiles. The FBI provides limited service in the area of profiling and these limitations are based on the amount of time and manpower available to conduct such profiles.

Instruction is the primary purpose of the Behavioral Science Unit of the FBI Training Division. Courses in applied criminology, abnormal psychology, sociology, hostage negotiations, interpersonal violence, and other behavioral science-related areas are taught at the Academy to FBI Agents and police officers. In the past, as an adjunct to its instructional programs, the Training Division has attempted to assist law enforcement agencies with the preparation of psychological profiles. During the initial stages of the FBI's involvement in profiling, these profiles were limited to students attending the FBI National Academy. During the past year, however, over 100 unsolved cases have been received by the Training Division from law enforcement officers nationwide. Due to increased instructional and research commitments, it was necessary to implement guidelines and control measures to manage and monitor effectively this investigative technique.

It is most important that this investigative technique be confined chiefly to crimes against the person where the motive is lacking and where there is sufficient data to recognize the presence of psychopathology at the crime scene. Psychological analysis is not a substitute for basic investigative princi-

ples, and all logical leads must be exhausted before requesting this service. This technique is usually confined to homicides, rapes, etc., in which available evidence indicates possible mental deficiency or aberration on the part of the perpetrator. Cases will be profiled on a "time available" basis, with the more severe cases being given priority. It should also be understood that analysis is for lead value only, and clinical opinions will not be offered. Cases which, in the opinion of the Training Division, fail to meet these criteria will be returned to the requesting agency. Under no circumstances should physical evidence be transmitted to the Federal Bureau of Investigation, since the possibility exists that information received may not be returned to the agency.

An agency requesting a psychological profile should contact the Federal Bureau of Investigation field office located within the territory of the department and provide to them the information as requested herein. The agency should make it known to the field office that they are requesting a psychological profile from the Behavioral Science Unit, Training Division.

FBI

Footnotes

- ¹ James Q. Wilson, *Varieties of Police Behavior* (Cambridge, Mass.: Harvard University Press, 1968), p. 30.
- ² George G. Killinger and Paul F. Cromwell, *Issues in Law Enforcement* (Boston: Holbrook Press, 1975), p. 212.
- ³ *Webster's New World Dictionary of the American Language* (New York: The World Publishing Company, 1978), p. 1163.
- ⁴ Walter C. Langer, *The Mind of Adolph Hitler* (New York: Basic Books, Inc., 1972).
- ⁵ James C. Coleman, *Abnormal Psychology and Modern Life* (Glenview, Ill.: Scott, Foresman and Company, 1980).
- ⁶ "Son of Sam: Implications for Psychiatry" (letter), *American Journal of Psychiatry*, 135 (1): 131, Jan. 1978.
- ⁷ *Diagnostic and Statistical Manual of Mental Disorders*, 2d ed., (Washington, D.C.: American Psychiatric Association, 1968).
- ⁸ Coleman, pp. 3-23.
- ⁹ J. V. McConnell, *Understanding Human Behavior* (New York: Holt, Rinehart, and Wilson, Inc., 1974), p. 25.
- ¹⁰ Sherrill Whiton, *Elements of Interior Design and Decoration* (New York: J.B. Lippincott Company, 1963), p. 751.
- ¹¹ R. Brittain, *The Sadistic Murderer*, *Medical Science and the Law*, Vol. 10, 1970, pp. 198-204; Donald Lunde, *Murder and Madness* (San Francisco: San Francisco Book Company, Inc., 1976).
- ¹² *The Encyclopedia of Philosophy* (New York: Macmillan Company, 1967), Vol. 8, p. 307.

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SEXUAL HOMICIDE

Sexual Homicide: A Motivational Model
Sexual Killers and Their Victims:
Identifying Patterns Through Crime Scene Analysis
Murderers Who Rape and Mutilate
The Men Who Murdered
The Split Reality of Murder
Classifying Sexual Homicide Crime Scenes:
Interrater Reliability
Crime Scene and Profile Characteristics
of
Organized and Disorganized Murderers
Interviewing Techniques for Homicide Investigations
The Lust Murderer
Rape and Rape-Murder: One Offender and Twelve Victims

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THE FORUM

The Forum presents major reviews of empirical research, theoretical conceptual formulations, or manuscripts of major significance to the field.

The findings from this exploratory study are reported in terms of the descriptive background characteristics of 36 sexual murderers, their behaviors and experiences in connection with their developmental stages, and the central role of sadistic fantasy and critical cognitive structures that support the act of sexual murder. A five-phase motivational model is presented: (1) ineffective social environment, (2) formative events, (3) critical personal traits and cognitive mapping process, (4) action toward others and self, and (5) feedback filter.

Sexual Homicide A Motivational Model

ANN W. BURGESS

University of Pennsylvania

CAROL R. HARTMAN

Boston College

ROBERT K. RESSLER

JOHN E. DOUGLAS

FBI Academy

ARLENE McCORMACK

University of Lowell

For many years, motiveless murder has baffled law enforcement officials and mental health professionals (Satten, Menninger, Rosen, & Mayman, 1960). Motiveless killings, usually serial in nature (carried out by a single individual over a period of time), leave virtually no clues about the murderer's motive or

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identity. Although this kind of crime has existed throughout history (Lunde, 1977), the number of such murders has never been as high (Ressler et al., 1985). According to the 1984 FBI Uniform Crime Report, 22.1% of murders committed in the reporting year had an unknown motive as analyzed by law enforcement. This figure takes on added meaning when it is compared to earlier reporting figures. In 1976, murders with an unknown motive represented 8.5% of all murders, 17.8% in 1981, and 22.1% in 1984 or an increase of 160% in an 8-year period.

Such seemingly motiveless murders were first covered extensively by the news media when New York City's "Son of Sam" killer David Berkowitz stalked victims, apparently chosen at random, and killed them with a .44 caliber pistol. Since then there has been considerable attention to these types of murders. People fear becoming the next random victim of these violent, often grisly crimes.

Sexual homicide results from one person killing another in the context of power, control, sexuality, and aggressive brutality. The psychiatric diagnosis of sexual sadism, sometimes applied to the victimizer, states that the essential feature of this deviant behavior (i.e., paraphilia) is the infliction of physical or psychological suffering on another person in order to achieve sexual excitement.

It has been difficult to gather dependable statistics on the number of sexual homicide victims for several reasons: (1) the victim is officially reported as a homicide statistic and not as a rape assault (Brownmiller, 1975; MacDonald, 1971), (2) there is a failure to recognize any underlying sexual dynamics in a seemingly "ordinary" murder (Cormier & Simons, 1969; Revitch, 1965), (3) those agencies that investigate, apprehend, and assess the murderer often fail to share their findings, curtailing the collective pool of knowledge on the subject (Ressler, Douglas, Groth, & Burgess, 1980), and (4) conventional evidence of the crime's sexual nature may be absent.

When law enforcement officials cannot readily determine a motive for murder, they examine its behavioral aspects. In developing techniques for profiling murderers, FBI agents have found that they need to understand the thought patterns of murderers in order to make sense of crime scene evidence and victim information. Characteristics of evidence and victims can reveal much about the murderer's intensity of planning, preparation, and follow-through. From these observations, the agents begin to uncover the murderer's motivation, recognizing how dependent motivation is to the killer's dominant thinking patterns. In many instances, a hidden, sexual motive emerges, a motive that has its origins in fantasy.

The role of fantasy in the motive and behavior of suspects is an important factor in violent crimes, especially sexual murders (Ressler et al., in press). In the last 20 years, the role of sadistic fantasy has been explored in several studies (Brittain, 1970; Reinhardt, 1957; Revitch, 1965, 1980; West, Roy, &

Nicholas, 1978), with MacCulloch and colleagues (1983) suggesting that sadistic acts and fantasy are linked and that fantasy drives the sadistic behavior. Current realization of cognitive structures, which help maintain behavior patterns (Beck, 1976), combine with investigation of sadistic fantasies (Brittain, 1970; MacCulloch, Snowden, Wood, & Mills, 1983; Ressler et al., 1985), criminal reasoning (Yochelson & Saminow, 1977; Saminow, 1984), and criminal fantasy (Schlesinger & Kutash, 1981), and serve as primary foundations for our conceptualization of a motivational model of sexual murder.

THE STUDY

Many people have speculated on various aspects of murder: epidemiological studies report on demographic data concerning victims and perpetrators (Constantino, Kuller, Perper, & Cypress, 1977) and patterns of homicide (Rushforth, Ford, Hirsch, Rushforth, & Adelson, 1977; Wolfgang, 1958); murderers have been categorized in terms of motive (Revitch, 1965), intent (Kahn, 1971), number of victims (Frazier, 1974) and type of victim (Cormier & Simons, 1969). Our study of 36 sexual killers was not designed to examine motivation, yet our research yielded rich descriptive data about what moved these men to kill.

The basis for the Patterns of Homicide Crime Scene Project, from which this article is derived, has been reported elsewhere in this journal (Ressler, Burgess, Douglas, Hartman, & D'Agostino, this issue). The project can be traced to the early 1970s, when agents of the FBI's Behavioral Science Unit (BSU) began, on an informal basis, to deduce certain offender characteristics by examining crime scene information. As a result, a preliminary framework for crime scene analysis and criminal profiling was formulated. Concurrent with the development of the criminal profiling project, a study was proposed to analyze crime scene patterns. Using case record review, direct observation, and first-hand investigative interviews, the study would examine convicted, incarcerated offenders.

This law enforcement study focused on analyzing crime scene evidence in order to identify the murderer. Data collection, which took place in various U.S. prisons between 1979 and 1983, was performed by special agents of the FBI. The data set for each murderer consisted of the best available data from two types of sources: official records (psychiatric and criminal records, pre-trial records, court transcripts, and/or prison records) and interviews with the offenders. The majority of offenders provided written consent to be interviewed. Interviews were all conducted in prisons with the cooperation of officials at the various correctional institutions.

Standard data collection forms were used. The forms not only provided guidelines for interviewing subjects but also established a system of recording and coding relevant data to permit computer analysis and retrieval. Information was requested about the offender and his background, about the offense, about the victim, and about the crime scene. Subjects were asked questions about childhood, adolescent, and adult behaviors or experiences that might be related to violence. In this article, we present a motivational model of sexual homicide based on (1) quantitative analysis of background data, and (2) qualitative analysis of interview data from murderers.

This was an exploratory descriptive study of a small available sample of 36 sexual murderers. Because of the limitations of the study design, we present critical variables not for generalization purposes, but as hypotheses for examination in subsequent research of sexual and "motiveless" murders. We have no data on a comparable control group; thus these findings should not be interpreted as showing a predictive role for certain childhood or adolescent experiences. Instead, we use the data in developing a motivational matrix for sexual murder.

FINDINGS

The Murderers

The 36 men in the study began their lives with certain advantages. Most of them grew up in the 1940s and 1950s, a period when attitudes in the United States favored oldest, white male children; all subjects were male, the majority (33) were white, and many were eldest sons (4 were only children, and 4 were adopted). They were of good intelligence, with 29% classified in the average range, 36% in the bright normal and superior range, and 15% in the very superior range. These attributes fostered in the offenders a certain sense of privilege and entitlement.

Initially, the majority of the men began life in two-parent homes. Half of the mothers were homemakers; three-quarters of the fathers earned stable salaries. Over 80% of the offenders described their family socioeconomic levels as average (self-sufficient) or better. Thus mothers were in the home raising the children; fathers were earning stable incomes; poverty was not a factor in the financial status of families.

Although the families initially appeared to be functional with both parents present, problems were noted within the parents' backgrounds. Families had criminal (50.0%), psychiatric (53.3%), alcohol abuse (69.0%), drug abuse (33.3%), or sexual (46.2%) problems in their histories. It appears that parents of these men were often absorbed in their own problems. Thus, while being offered little guidance because of their parents' preoccupation with

their troubles, the murderers as young boys were witness to these deviant role patterns of criminal behavior, substance abuse, and poor interpersonal relationships.

In 47% of cases, the father left the home before the subject was 12; in 43% of the cases at least one parent was absent at some time prior to the subject's reaching age 18. This loss of the father required many of the offenders to adjust to a new male caretaker during childhood and adolescent years.

Instability in the family residence was also noted in many cases (68%). In addition, 40% of the subjects lived outside the family home before age 18. Locations included foster homes, state homes, detention centers, and mental hospitals. The histories of frequent moving reduced the boys' opportunities to develop positive outside relationships that might have compensated for family instability.

Examination of performance behaviors of the subjects revealed that despite their intelligence and potential in many areas, performance in academics, employment, and military was often poor. Only one-third did average or better in school, with 68% receiving a fair to poor academic rating. The majority did not finish high school. Thus, although these men were intellectually bright, they did not perform to their abilities.

There was confirming evidence of abuse in the childhood histories of the 36 murderers. Physical abuse (13/31), psychological abuse (23/31), and sexual abuse (12/28) were noted. This reveals that many of the men experienced some type of childhood abuse. It is noteworthy that 25 of the 36 men had some type of psychiatric assessment or confinement as a child or adolescent.

Behavioral Indicators

Our analysis examined the results of a checklist of symptoms and behavioral experiences (see Table 1). This checklist was derived from a standard list of self-report indicators, used in research on a wide variety of psychosocial studies, and also included indicators of thinking patterns (daydreams) and behaviors derived from the FBI profilers' understanding of criminal behavior. However, readers should keep in mind that many of these behavioral symptoms have no consistent definitions or ways of measurement. For example, there is no method of measuring a pattern of lying or masturbation.

Childhood. An analysis of 24 checklist items indicates that over 50% of the murderers reported the following present in childhood: daydreaming (82%), masturbation (82%), isolation (71%), chronic lying (71%), enuresis (68%), rebelliousness (67%), nightmares (67%), destruction of property (58%), fire-setting (56%), cruelty to children (54%), and poor body image (52%).

Adolescence. An analysis of 24 checklist items indicates that over 50% of murderers reported the following behaviors: assaultive to adults (84%), rebel-

liousness (84%), masturbation (82%), stealing (81%), daydreaming (81%), isolation (77%), chronic lying (75%), nightmares (68%), poor body image (63%), cruelty to children (64%), destroying of property (62%), enuresis (60%), and firesetting (52%).

Adulthood. An analysis of 24 checklist items indicates that over 50% of murderers reported that during adulthood, the following behaviors were present: assaultive to adults (86%), daydreaming (81%), masturbation (81%), isolation (73%), rebelliousness (72%), chronic lying (68%), poor body image (62%), stealing (56%), and nightmares (52%).

For descriptive purposes, we use the terms *internal behaviors* and *external behaviors*. Internal behaviors include thinking patterns and experiences within or unique to the individual; external behaviors are those overt actions that can be observed by others. The internal behaviors most consistently reported over the three developmental periods are daydreaming, compulsive masturbation, and isolation. The external behaviors most consistently reported include chronic lying, rebelliousness, stealing, cruelty to children, and assault on adults.

ROLE OF FANTASY

The central role of daydreaming and fantasy in the lives of the 36 murderers is critical to what motivated them to kill. Daydreaming has been defined as any cognitive activity representing a shift of attention away from a task (Singer, 1966). A fantasy, as we define it, is an elaborate thought with great preoccupation, anchored with emotion and having origins in daydreams. A fantasy is generally experienced as thoughts, although the individual may be aware of images, feelings, and internal dialogue. Some people may be conscious only of thoughts, whereas others are conscious only of feelings. Fantasy is a normal way for adults as well as children to obtain and maintain control of an imagined situation.

However, the level of fantasy development may differ among people and is generally based on the individual's ability to identify certain thoughts as daydreams, to articulate their content, and retrospectively to recall this content. Singer (1966) observed that 96% of adults report that they daydream several times a day, and Beres (1961) noted that fantasy may either substitute or prepare for action. For various groups of people, fantasies may be sadistic (MacCulloch et al., 1983). It is not known how many people activate their sadistic fantasies and in what context this may occur, but Schlesinger & Revitch (1980) caution that once the fantasy builds to a point where inner stress is unbearable, the way for action is prepared.

Whereas psychological motives for violent behavior are usually conceptualized in the literature as having roots beginning with trauma, insult,

TABLE 1
Frequency of Reported Behavior Indicators in
Childhood, Adolescence, and Adulthood
for Sexual Murders

Behavior	Frequency					
	Childhood n	(%)	Adolescence n	(%)	Adulthood n	(%)
Daydreaming	28	82	27	81	27	81
Compulsive masturbation	28	82	28	82	27	81
Isolation	28	71	26	77	26	73
Chronic lying	28	71	28	75	28	68
Enuresis	22	68	20	60	20	15
Rebellious	27	67	25	84	25	72
Nightmares	24	67	22	68	21	52
Destroying property	26	58	26	62	23	35
Fire setting	25	56	25	52	25	28
Stealing	27	56	27	81	25	56
Cruelty to children	28	54	28	64	27	44
Poor body image	27	52	27	63	26	62
Temper tantrums	27	48	26	50	25	44
Sleep problems	23	48	22	50	22	50
Assaultive to adults	25	38	25	84	28	86
Phobias	24	38	23	43	24	50
Running away	28	36	26	46	26	11
Cruelty to animals	28	36	26	46	25	36
Accident prone	24	29	22	32	22	27
Headaches	21	29	21	33	22	45
Destroying possessions	25	28	23	35	23	35
Eating problems	26	27	25	36	26	35
Convulsions	26	19	24	21	23	13
Self-mutilation	26	19	24	21	25	32

NOTE: n = number of subjects with data.

and/or overstimulation in early childhood, our thesis is different. We hypothesize that these men are motivated to murder by their way of thinking. Over time, their thinking patterns emerged from or were influenced by early life experiences. For example, a child abused by an adult caretaker begins to think about being hit every time an adult comes near him, dwelling on the hitting. He may imagine (fantasize) about someone coming to help him by beating up the adult. This thinking pattern may bring relief, because someone has protected him in his fantasy. In addition, while being abused the child may psychologically remove himself from the pain. He may pride himself on his control over pain in the face of abuse; for example, while being beaten he does not flinch or blink. This thinking pattern gives the child a sense of control and, as a result, tension is relieved. The child can increase or decrease terror

with different levels of arousal through fantasy. Development of this type of thinking pattern does not necessarily mean a child will grow up to be an abuser; our example illustrates the role of fantasy and its development.

In analyzing the data we obtained through interviews with the murderers, we attempted to link our quantifiable findings with indications from the murderers themselves of long-standing, aggressive thoughts and fantasies directed toward sexualized death. The findings suggest that these thought patterns were established early and existed in a context of social isolation.

Murderers were consciously aware of the central role of fantasy in their lives and of their preference for fantasy over reality. Even those men unaware of this reported that their thoughts became retaliatory or vengeful when they perceived themselves as being slighted, rejected, frustrated, or betrayed. Such thinking becomes an important component in the maintenance of sexually aggressive violent behavior.

The central role that fantasy plays in the thinking patterns of these men is noted in one of the subject's statements: "All my life I knew I was going to end up killing." It also was observed in the statement of a parent who, after her son was convicted of fetish robberies, feared the outcome of her son's moodiness and isolation would be "something really terrible and tragic."

Early Fantasy Development

It is important to keep in mind that not all children respond to their environment with violent fantasies and not all children who fantasize violence act out these fantasies. Nevertheless, from our interviews with the murderers in our study, the high degree of egocentricity in the murderer's negative, aggressive, sexualized fantasy and play is revealed.

As children, the murderers often thought of other children and family members as extensions of their inner worlds. The revealed intermittent awareness of the impact of their early childhood behavior on others. They were not influenced by the response of others to their behavior. It continued and repeated itself. They recounted tying up a smaller child and scaring him or destroying another child's toy. A man who eventually beheaded his victims did not associate that action with his early childhood activities that involved the systematic decapitation of his sister's dolls. He saw his actions as a response to his annoyance with his sister, not to his desire to dominate, bully, and hurt. Ritualistic play of tying up and scaring a younger child was not associated to one murderer's abuse as a child. His play was a reenactment. Murderers recounting violent and sadistic behavior as adolescents were more aware of the intentionality of their acts.

The interviews with the offenders are remarkable in the absence of any accounts of positive childhood fantasies. However, it is unclear whether such fantasies were actually nonexistent or whether early positive fantasies were

lost in later negative perspectives and behaviors. The following example illustrates the pervasive nature of the child's negative daydreaming:

I felt guilty for having those thoughts [toward family] and submerged them and built up lots of hostility and then it got off into fantasy. . . . They should have noticed it at school, so excessive was my daydreaming that it was always in my report cards. . . . I was dreaming about wiping out the whole school.

Early Sexualization of Fantasy

The childhood onset of sexual fetish interests was noted in the subjects. Several subjects described strong interest and attraction at approximately the age of five to high heeled shoes, female underwear, and rope. The men were aware of the carryover of sexualized fantasies about these items into adolescence and adulthood. When the subjects began to murder, these items took on importance in ritualized aspects of their murders.

Evidence of childhood sexualized play in the lives of the murderers was also revealed by parents and caretakers. Some parents provided information about preschool sexual fantasies. In one case, a mother recalled finding her 3-year-old son, with one end of a string tied to his penis and the other end of the string shut in a bureau drawer, leaning backward to exert a pulling sensation on his penis. The boy's behavior suggested he had engaged in such activity earlier. It is most likely that this behavior was introduced initially by an older person; evidence suggests the boy's babysitter was responsible.

Aggressive Components of Early Fantasy

When murderers were asked to describe their early favorite play activities, some revealed a repetitive acting out of a core aggressive fantasy. These childhood fantasies were so dominant that they became persistent themes in play with other children or alone. In some cases, an original violation or assault was expressed. For example, one subject at age 15 took younger boys into the bathroom of his residential facility and forced oral and anal sex on them, reenacting his own victimization at age 10 but reversing his role from victim to victimizer. However, he did not consciously connect this behavior with his own earlier assaults. The assaultive rituals were his attempts at mastery and control over people and situations.

Another offender as an adolescent openly masturbated in his home, especially in front of his sisters, using their underwear in his masturbation rituals. He appeared oblivious to the inappropriate nature of his acts, and was offended by his family's response, feeling that family members were rejecting, intolerant, and unfair. It is speculated that his behavior represented a hyper-arousal state derived from a repressed memory from childhood.

Aggressive content in the form of death themes was also noted for those murderers who described their early fantasies. Death is an example of ulti-

mate control. When directed toward oneself in childhood, it can be a counter-reaction to overwhelming fear, and its dominance in thought and play reveals the child's troubled state of mind.

In one case, the 12-year-old subject repeatedly played "gas chamber" with his sister. This game required his sister to tie him up in a chair, throw an imaginary switch, and when "gas" was introduced, the subject would grasp at his throat, drop to the floor, writhe convulsively, and "die." This game combined a sexual theme (compression of the carotid arteries for a sexual sensation) and death theme fantasy.

Early Expressions of Sexual and Aggressive Fantasy

Early fantasies often give rise to behavior tryouts that are precursors to criminal behavior (MacCulloch, 1983). These precursor behaviors have the capacity to move the child into pain-inflicting acts and to break through in subtle, as well as overt, ways. They may emerge as play-engagement behaviors with others (i.e., bullying younger children or putting pins in the rug for a sister to walk on) or actions involving only themselves (i.e., tying ropes around their necks or cutting parts of their bodies). Such behavior was noted in the reported cruelty to other children by the offenders as youths as well as in the offender's earliest encounters with law enforcement. Although such encounters are often dismissed as adolescent adjustment problems, they may be evidence of an escalation in aggressive acts toward others.

Especially illustrative of such escalation of fantasy expression is the previously cited example of the 3-year-old boy who was observed by his mother with his penis tied to a bureau drawer. As a young adolescent, he was found by his parents in the bathtub practicing autoerotic asphyxia with his penis and neck tied to the cross-bar of the faucets. At age 14 his parents took him to a psychiatrist after noticing rope burns on his neck. At age 17 this same subject abducted a girl at knife-point, took her to a deserted area where he kept her all night, and released her in the morning. The adolescent was apprehended and then released; the charge on his record was "girl trouble." Of importance is the offender's shift in the object of aggression from himself to a woman. Not until late adolescence, when the offender began following women, confronting them with a knife, binding them, and fondling them was the offender sent to prison. After release from prison, his crimes escalated to the murder of three young women by asphyxia.

The early expressions of aggressive fantasies were often painful memories for the offenders to reveal and the ones, for various reasons, that were never discussed. They may have realized that they could have controlled their actions and that they were aware that they had crossed the line between fantasy and reality. In cases where the men were not apprehended for their early crimes, they learned they were not controlled by authority and that they

could act violently and kill with impunity. Of the 36, 10 murdered as juveniles, thus realizing that they had the power over life.

MOTIVATIONAL MODEL OF SEXUAL HOMICIDE

To illustrate our hypothesis of the various factors that influenced the 36 sexual murderers to kill, we present a motivational model for understanding sexually oriented murder and sadistic violence. In addition to the data we collected, the interviews with the murderers serve as a basis for this model. The murderers' early development of an active, aggressive fantasy life (daydreams) combined with later sexual reinforcement (compulsive masturbation) and increasing detachment from social rules of conduct (social isolation) provide a framework that reinforces his subsequent violent behavior.

The model has five interacting components emphasizing interrelationships among (1) the murderer's ineffective social environment, (2) child and adolescent formative events, (3) patterned responses to these events, (4) resultant actions toward others, and (5) the killer's reactions, via a mental "feedback filter," to his murderous acts (see Figure 1).

(1) Ineffective Social Environment

It is often suggested by child and family theorists that the structure and quality of family and social interaction, especially in the way the child perceives family members and their interaction with him and with each other, are important factors in a child's development. For children growing up, the quality of their attachments to parents and to other members of the family is most important in how these children later as adults relate to and value other members of society. Essentially, these early life attachments (sometimes called "bonding") translate into a blueprint of how the child will perceive situations outside of the family. Thus one of the primary functions of family life is to develop a child who has a positive bonding with his social environment.

In our population of murderers, this social bonding fails or becomes narrow and selective. Caretakers either ignore, rationalize, or normalize various behaviors in the developing boy or, through their own problems (e.g., criminal behavior or substance abuse), support the child's developing distortions and projections ("I was framed"). People significant to the boy do not provide nurture and protection; rather, they impose adult expectations on the boy ("Boys should be strong and take care of themselves"). Adults are nonprotective and nonintervening on behalf of the boy. The boy may be punished for a specific antisocial act but the social restriction does not register in an experiential and cognitive way; that is, the boy is reprimanded or brought to court but he normalizes the behavior as, "All boys get into

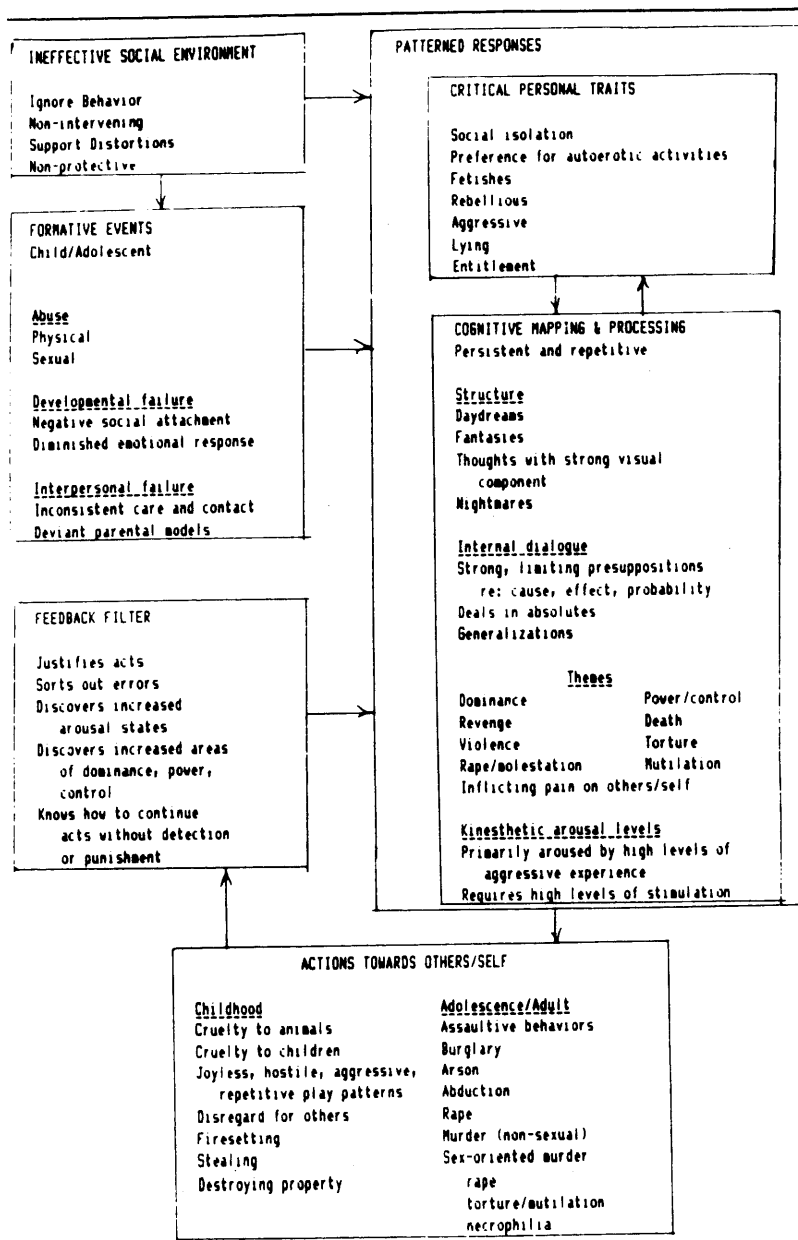


Figure 1: Sexual Homicide: Motivational Model

trouble." The ineffective social environment expands from caretakers to individuals in a community whose work brings them into contact with the young person (e.g., teachers, counselors, ministers, police).

(2) Formative Events

There are three factors that contribute to the formative events component of our model. The first of these is trauma, in the form of physical or sexual abuse. The developing child encounters a variety of life events, some normative (e.g., illness, death) and others nonnormative. Those nonnormative events in the murderer sample include direct trauma (physical and/or sexual abuse) and indirect trauma (witnessed family violence). Within the context of the child's ineffective social environment, the child's distress caused by the trauma is neglected. The child is neither protected nor assisted in recovery from the abusive and overwhelming events; the external environment does not address the negative consequences of the events.

One assumption regarding early traumatic events is that the child's memories of frightening and upsetting life experiences shape the child's developing thought patterns. The type of thinking that emerges develops structured, patterned behaviors that in turn help generate daydreams and fantasies. The literature on children traumatized by sexual and physical abuse and by witnessing violence reports the occurrence of dreams, nightmares, and disturbing memories of the trauma (Burgess & Holmstrom, 1974, 1979; Conte, 1984; Pynoos & Eth, 1985). Other studies have documented these children engaging in painful, repetitive acting-out of the traumas (Axline, 1969; Gardner, 1971; Terr, 1979, 1981a, 1981b, 1983). Play of emotionally disturbed and troubled children often contains conflicted and obsessive themes, contrasting with the creative and flexible themes noted in nondisturbed children. We believe the traumatized child's play remains fixed on thoughts associated with the traumatic event and is held separate or encapsulated (Hartman & Burgess, in press) rather than integrated in play activities or in art expression through drawings (Wood, Burgess, & McCormack, in press). Successful resolution of traumatic events results in the child being able to talk about the event in the past tense and with equanimity. Unsuccessful resolution of the trauma underscores the victim's helplessness often with the emergence of aggressive fantasies aimed at achieving the dominance and control absent from reality (Burgess, Hartman, McCausland, & Powers, 1984; MacCulloch et al., 1983; Pynoos & Eth, 1985).

A second assumption regarding early traumatic events is that manifestations of the impact of distressing events, such as direct sexual and physical abuse, are influential in the child's social development (Burgess et al., 1984; Conte, 1984; Pynoos & Eth, 1985). Concurrent with the abusive event, the child may experience a sustained emotional/physiological arousal level. When this sustained arousal level interacts with repetitive thoughts about the

trauma, the child's perceptions and patterns of interpersonal relationships may be altered. For example, the child may show hyperaggressive behavior by striking out at parents or repeatedly assaulting a favorite pet.

The second factor contributing to the formative events component of our model is developmental failure. For some reason the child does not readily attach to his adult caretaker. This is the child who does not listen or respond to any limit setting and who often is described as aloof, cold, and uncaring. As a result of this negative social attachment (bonding), the caretaker has no influence initially over the child and later over the adolescent. In cases where the child has been psychologically deprived or neglected, he may feel a diminished emotional response.

Interpersonal failure, the third factor in this model component, is the failure of the caretaking adult to serve as a role model for the developing child. There are various reasons for this failure including the caretaker being absent or serving as an inadequate role model (e.g., a parent with problems of substance abuse or an abusive parent). The child may experience a violent home environment where he sees aggression (drunken fights) associated with sexual behavior of adults.

(3) Patterned Responses

The patterned responses component of the motivational model includes two subcategories: (1) critical personal traits, and (2) cognitive mapping and processing. These subcategories interact with each other to generate fantasies.

Critical Personal Traits

In the normal growth and development of a child, positive personality traits of warmth, trust, and security help establish the child's relationships with others. These critical traits, in combination with an effective social environment, allow the child to develop competence and autonomy.

In the murderer group, there was a propensity for the 36 men to develop negative rather than positive personal traits. These negative personal traits interfere with the formation of social relationships and the development of an emotional capacity within the context of human encounters. Increased social isolation encourages a reliance on fantasy as a substitute for human encounter. In turn, individual personality development becomes dependent on the fantasy life and its dominant themes, rather than on social interaction. Without human encounters and negotiations, there is failure to develop the corresponding social values, such as respect for others' lives and property.

The personal traits critical to the development of the murderers in our study include a sense of social isolation, preferences for autoerotic activities and fetishes, rebelliousness, aggression, chronic lying, and a sense of entitlement. The offenders' chronic lying underscores their lack of trust and commitment to a world of rules and negotiation. Rather, distrust and a sense of

entitlement to whatever they can get dominate their perceptions. Their social isolation and aggression interact, restricting sexual development based on caring, pleasure, and companionship. Because they are so isolated, the men have little opportunity for interpersonal experiences that might modify their misconceptions about themselves and others. Their personal affective lives become dependent on fantasy for development. In turn, fantasy becomes the primary source of emotional arousal and that emotion is a confused mixture of sex and aggression.

Cognitive Mapping and Processing

Cognitive mapping refers to the structure and development of thinking patterns that give both control and development to one's internal life (e.g., one's sense of self and beliefs about the world) and link the individual to the social environment (e.g., one's interpretation of others). The process of cognitive mapping generates the meaning of events for an individual and mediates sensory arousal patterns. Additionally, it is a filtering system that allows for interpretation of new information (e.g., "I'm always being singled out"; "It's my life and I can live it my own way"). Cognitive mapping and processing are aimed at self-preservation and equilibrium through the reduction of the negative affects of helplessness, terror, and pervasive anxiety.

In the murderers, the mapping is repetitive and lacking socially enhancing cognitions, moving the individual to an antisocial position and view of the world. What emerges is a primary sense of entitlement to express oneself regardless of its impact on others. The thought and action are justified through the cognitive mapping of the murderer. The individual does not experience a positive impact with the social environment. This occurs because his fantasies and thinking patterns are a substitute for social relationships. They are designed to stimulate and reduce tension. A sense of self is developed and bolstered by the fantasies. The self-image is terrifying to imagined others and contributes to further social isolation. The process continues and becomes the primary source of energy for the psychological life of the individual. Imagined outcomes of control and dominance over others become a substitute for a sense of mastery of internal and external experience.

Parallel with the repetition of ideation of cognitive mapping is the neurohormonal influence on sensory arousal levels. The neurohormonal basis of the pleasure associated with aggressive fantasy activity is unknown. There is, however, substantial evidence that stressors elicit a central nervous system (CNS) opiod responses in both animals (stress-induced anaesthesia) and human beings (van der Kolk, Greenberg, Boyd, & Krystal, 1984). Elevated plasma levels of endogenous opiates have been documented in marathon runners (Colt, Wardlaw, & Frantz, 1981), individuals who have undergone surgery (Cohen, 1982), and patients who engage in self-mutilation (Coid, 1983). This suggests that the source of the stressor may be external or internal. It also has

been reported that removal of the stressor may be associated with opiate withdrawal-like symptoms: anxiety and irritability (Backland, 1970; van der Kolk et al., 1984). In a recent analysis of the psychobiology of posttraumatic stress (PTS), van der Kolk et al. (1984) have suggested that the stress-approach behavior consistently displayed by individuals who suffer from PTS disorders may involve a conditioned CNS opiod response followed by withdrawal hyperreactivity. By analogy, compulsive aggressive fantasy activity may also involve such a psychobiological mechanism. In this case individuals re-expose themselves to traumatic situations through fantasy activity. The internally induced stressor elicits the opiod response, which brings relief and/or pleasure as well as avoidance of the noxious symptoms of opiate withdrawal.

Structures of cognitive mapping and processing include daydreams, nightmares, fantasies, and thoughts with strong visual components. There is internal dialogue of limiting beliefs regarding cause, effect, and probability. The subjects deal in absolutes and generalizations. The themes of their fantasies include dominance, revenge, violence, rape, molestation, power, control, torture, mutilation, inflicting pain on self/others, and death. High sensory arousal levels become the preferred state. The preoccupation with the aggressive themes, the detailed cognitive activity, and elevated kinesthetic arousal state eventually move the person into actions.

(4) Actions Toward Others

Childhood actions are based on the child's regard and caring for others as well as on self-respect and flexibility. In other words, behavior patterns reflect the private, internal world of the child.

Interviews with the murderers in our study revealed that their internal world is often preoccupied with troublesome, joyless thoughts of dominance over others. These thoughts are expressed through a wide range of actions toward others. In childhood, these include cruelty toward animals, abuse of other children, negative play patterns, disregard for others, firesetting, stealing, and destroying property. In adolescence and adulthood, the murderer's actions become more violent: assaultive behaviors, burglary, arson, abduction, rape, nonsexual murder, and finally sexual murder involving rape, torture, mutilation, and necrophilia.

The early expression of cruelty toward both animals and humans when not intervened and stopped, we believe, sets the stage for the future abusing behavior in two ways. First, the early violent acts are reinforced, as the murderers either are able to express rage without experiencing negative consequences or are impassive to any prohibitions against these actions. Second, impulsive and erratic behavior discourages friendships. The failure to make friends leads to isolation and interferes with the ability to resolve conflicts, to

develop positive empathy, and to control impulses. Furthermore, there is no challenge to their beliefs that they were entitled to act the way they do. The men either as children or adolescents feel estranged from people. Although that does not mean that superficially they cannot relate to people, it does indicate that in terms of socially effective learning, they have major deficits. They are loners; they are self-preoccupied. Either by daydreaming or fantasies, they become absorbed in their own thoughts.

(5) Feedback Filter

Given the detailed and repetitive thinking patterns of these murderers, it is not surprising to learn that the murderer reacts to and evaluates his actions toward others and toward himself. These reactions and evaluations influence his future actions. We term this reacting the *feedback filter*, because it both feeds back into the killer's patterned responses and filters his earlier actions into a continued way of thinking.

Through the feedback filter, the murderer's earlier actions are justified, errors are sorted out, and corrections are made to preserve and protect the internal fantasy world and to avoid restrictions from the external environment. The murderer experiences increased arousal states via fantasy variations on the violent actions. Feelings of dominance, power, and control are increased. The murderer develops increased knowledge of how to avoid punishment and detection. All this feeds back into the patterned responses and enhances the details of the fantasy life. For example, one of the murderers reported how he sat in prison ruminating on his fantasies regarding killing women and dismembering their bodies. As time went on, he became much more excited by his thoughts of disposing of the victims' bodies and tricking law enforcement agents. In this peculiar evolution of events, he now experienced himself as more involved in the social world.

Model Summary

When adolescent and adult criminals are studied in terms of the contribution of past events to their criminality, emphasis previously has been on the event itself rather than on the subject's response and reaction to the event. In part, psychological models of motivation for sexual murder have focused on models of displacement of rage and frustration from primary caretakers in the lives of sexual murderers. Although these symbolic artifacts may operate, a more direct understanding of the potential for violence and criminal behavior resides in the fantasy life and basic cognitive operations of murderers. A context of justifying socially abhorrent acts provides support for the murderers' aggressive, violent fantasies. This structure, limited to its sensory arousal capacities, maintains and perpetuates the destructive acts.

Our motivational model suggests that traumatic and early damaging experiences to the murderers as children set into motion patterns of cognition. Although there may be initial attempts to work through the troublesome effects of the experience, attempts to do so become patterns for limiting choices such as aggression being the only method for dealing with conflict. In addition, a structure of thinking that motivates and sustains deviant behavior through developmental and interpersonal failure and through the alliance of distorted perceptions and affect begins to emerge. Of particular importance is the activation of aggression and its link with sexual expression. The lack of attachment to others gives a randomness to the sexual crimes; however, scrutiny of the thinking patterns of the offenders indicates that there is planning of the crimes whether they rely on chance encounters with any victim or whether they are planned to snare victims.

IMPLICATIONS

There are clinical implications from this study. Understanding the reinforcing quality of actions, be they in fantasy, play, or acting out behaviors, may lead to different notions regarding not only motivation but also behavior change. Exploratory efforts by clinicians are needed for methods to alter the structure of these fantasies. For example, the offender might be forced to relate to the victim position in the fantasy as a way to stimulate compassion for rather than violence to the victim.

This study raises concern about how to deal therapeutically with the notion of fantasy in the criminal population. We note that some levels of dwelling on fantasies has the capacity to escalate rather than diminish the power of the fantasy. Unless one alters the structure of the fantasy that moves toward the aggressive acts, the power can be increased.

This exploratory study suggests avenues for further research. Basic research in biological and psychosocial factors is necessary to explore the biochemical hormonal sensory levels associated with deviant fantasies of both youth and adults. We know that pessimistic cognitions are associated with lowered epinephrine levels in endogenous depression; what might research suggest regarding violent sexualized fantasies?

Basic research on the sensory arousal levels of people during fantasy might answer the question: Is there a basis of hormonal release addicting the person to violent fantasy and violent acts? And does the structure of fantasy differ between various groups of deviant offenders?

Research on a longitudinal basis of children's response to and recovery from sexual and physical/psychological abuse and research on the social context in which the child survives and recovers from abuse are important to any understanding of motivational factors. In this context, a control group

of abused males who do not commit criminal acts is essential to identify the factors that help the victim recover and survive the abuse.

Our work and the research of others (Prentky et al., 1985) suggest that a typology of murderers is essential to investigate for a variety of reasons. First, any understanding of the typology may enhance law enforcement efforts both at persuading certain offenders to turn themselves in and at more narrowly focusing investigative efforts. Second, a classification system will give professionals working to curtail violent behavior a focus for intervention efforts that address the need to monitor, evaluate, and change salient personality characteristics. Measurements of these characteristics and methods of evaluating positive change are essential to prevent the tragic reality of released violent criminals repeating their crimes. Third, a classification system would facilitate dialogue between the various disciplines working with offenders and would encourage research into profiling of suspects from crime scene evidence, a technique currently in progress at the National Center for the Analysis of Violent Crime (Douglas, in preparation). Further, behavioral research efforts by law enforcement agencies are important to their development of an additional skill in reading the seemingly inert characteristics of crime scene evidence. Understanding the motivational and behavioral matrix of the offender increases law enforcement's utilization of the connection between patterns of thinking and behavior.

REFERENCES

- Axline, V. M. (1969). *Play therapy*. New York: Ballantine.
- Baekeland, F. (1970). Exercise deprivation: Sleep and psychological reactions. *Archives of General Psychiatry*, 22, 365-369.
- Beck, A. T. (1976). *Cognitive therapy and emotional disorders*. New York: Simon & Schuster.
- Beres, D. (1961). Perception, imagination and reality. *International Journal of Psychoanalysis*, 41, 327-334.
- Brittain, R. P. (1970). The sadistic murderer. *Medical Science and the Law*, 10, 198-207.
- Brownmiller, S. (1975). *Against our will: Men, women and rape*. New York: Simon & Schuster.
- Burgess, A. W., Hartman, C. R., McCausland, M. P., & Powers, P. (1984). Response patterns in children and adolescents exploited through sex rings and pornography. *American Journal of Psychiatry*, 141 (5), 656-662.
- Burgess, A. W., & Holmstrom, L. L. (1974). Rape trauma syndrome. *American Journal of Psychiatry*, 131, 981-986.
- Burgess, A. W., & Holmstrom, L. L. (1979). *Rape: Crisis and recovery*. Bowie, MD: Brady.
- Cohen, M. R., Pichas, D., Dubois, M., et al. (1982). Stress induced plasma beta endorphin immunoreactivity may predict postoperative morphine usage. *Psychiatric Research*, 6, 7-12.

- Coid, J., Allohio, B., & Rees, L. H. (1983, September 3). Raised plasma metenkephalin in patients who habitually mutilate themselves. *The Lancet*, pp. 545-546.
- Colt, E. W. D., Wardlaw, S. L., & Frantz, A. G. (1981). The effects of running on plasma B-endorphin. *Life Sciences*, 28, 1637-1640.
- Constantino, J. P., Kuller, L. H., Perper, J. A., & Cypress, R. H. (1977). An epidemiologic study of homicides in Allegheny County, Pennsylvania. *American Journal of Epidemiology*, 106 (4), 314-324.
- Conte, J. R. (1984). Progress in treating the sexual abuse in children. *Social Work*, pp. 258-263.
- Cormier, B. S., & Simons, S. P. (1969). The problem of the dangerous sexual offender. *Canadian Psychiatric Association Journal*, 14, 329-334.
- Douglas, J. E. (in press). *Profiling as an investigative technique*.
- Eth, S., & Pynoos, R. (1984). Developmental perspectives on psychic trauma in childhood. In C. R. Figley (Ed.), *Trauma and its wake*. New York: Brunner/Mazel.
- Frazier, S. H. (1974). Murder—single and multiple. *Aggression Research Publication ARNMD*, 52, 304-312.
- Gardner, R. A. (1971). *Therapeutic communication with children*. New York: Science House Books.
- Hartman, C., & Burgess, A. W. (in press). Causes and consequences of sexual assault. In V. Carlson & D. Cicchetti (Eds.), *Child maltreatment*.
- Kahn, M. W. (1971). Murderers who plead insanity: A descriptive factor-analytic study of personality, social and history variables. *Genetic Psychology Monographs*, 84 (2), 275-360.
- Lunde, D. (1977). *Murder and madness*. Los Angeles: University of California Press.
- MacCulloch, M. G., Snowden, P. R., Wood, P. J. W., & Mills, H. E. (1983). Sadistic fantasy, sadistic behaviour and offending. *British Journal of Psychiatry*, 143, 20-29.
- MacDonald, J. M. (1971). *Rape offenders and their victims*. Springfield, IL: Charles C Thomas.
- Prentky, R., Cohen, M., & Seghorn, T. (1985). Development of a rational taxonomy for the classification of sexual offenders: Rapists. *Bulletin of the American Academy of Psychiatry and the Law*, 13, 39-70.
- Pynoos, R. S., & Eth, S. (1985). Children traumatized by witnessing acts of personal violence: Homicide, rape, or suicidal behavior. In S. Eth & R. S. Pynoos (Eds.), *Post-traumatic stress disorders in children* (pp. 17-44). Washington, DC: American Psychiatric Press.
- Reinhardt, J. M. (1957). Sex perversions and sex crimes: A psychocultural examination of the causes, nature and criminal manifestations of sex perversions. *Police science series*. Springfield, IL: Charles C Thomas.
- Ressler, R. K., Douglas, J. E., Groth, A. N., & Burgess, A. W. (1980). Offender profiling: A multidisciplinary approach. *FBI Law Enforcement Bulletin*, 49 (10), 16-20.
- Ressler, R. K., et al. (1985). Violent crimes. *FBI Law Enforcement Bulletin*, 54 (8), 1-33.
- Revitch, E. (1965). Sex murder and the potential sex murderer. *Diseases of the Nervous System*, 26, 640-648.
- Revitch, E. (1980). Genocide and unprovoked attacks on women. *Correctional and Social Psychiatry*, 26, 6-11.
- Rushforth, N. B., Ford, A. B., Hirsch, C. S., Rushforth, N. M., & Adelson, L. (1977). Violent death in a metropolitan county: Changing patterns in homicide (1958-74). *New England Journal of Medicine*, 274 (1), 53-58.

- Samenow, S. E. (1980). *Inside the criminal mind*. New York: Time Books.
- Satten, J., Menninger, K., Rosen, I., & Mayman, M. (1960). Murder without apparent motive: A study in personality disorganization. *American Journal of Psychiatry*, 117, 48-53.
- Schlesinger, L. B., & Kutash, I. L. (1981). The criminal fantasy technique: A comparison of sex offenders and substance abusers. *Journal of Clinical Psychology*, 37 (1), 210-218.
- Schlesinger, L. B., & Revitch, E. (1981). Stress, violence and crime. In I. L. Kutash & L. B. Schlesinger (Eds.), *Handbook on stress and anxiety*. San Francisco: Jossey-Bass.
- Seghorn, T. K., Boucher, R. J., & Prentky, R. A. (in press). *Childhood sexual abuse in the lives of sexually aggressive offenders*.
- Singer, J. L. (1966). *Daydreaming*. New York: Random House.
- Terr, L. (1979). Children of Chowchilla: A study of psychic trauma. *Psychoanalytic Study of the Child*, 34, 547-623.
- Terr, L. (1981a). Forbidden games: Post-traumatic child's play. *Journal of the American Academy of Child Psychiatry*, 20, 741-760.
- Terr, L. (1981b). Psychic trauma in children. *American Journal of Psychiatry*, 138, 14-19.
- Terr, L. (1983). Life attitudes, dreams and psychic trauma in a group of "normal" children. *Journal of the American Academy of Child Psychiatry*, 22, 221-230.
- van der Kolk, L., Greenberg, M., Boyd, H., & Krystal, J. (1984). Inescapable shock, neurotransmitters, and addition to trauma: Toward a psychobiology of post-traumatic stress. *Biological Psychiatry*, 20, 314-325.
- West, D. J., Roy, C., & Nicholas, F. L. (1978). *Understanding sexual attacks*. London: Heinemann.
- Wolfgang, M. E. (1958). *Patterns of homicide*. Philadelphia: University of Pennsylvania Press.
- Wood, J., Burgess, A. W., & McCormack, A. (in press). *Runaways and their drawings: Response patterns associated with abuse*.
- Yochelson, S., & Samenow, S. (1977). *The criminal personality*. New York: J. Aronson.

Ann W. Burgess, R.N., D.N.Sc., is van Ameringen Professor of Psychiatric Mental Health Nursing, University of Pennsylvania, Philadelphia, and Associate Director of Nursing Research, Boston City Hospital, Boston.

Carol R. Hartman, R.N., D.N.Sc., is Associate Professor and Coordinator of the Graduate Program in Psychiatric Mental Health Nursing, Boston College, Chestnut Hill, MA.

Robert K. Ressler, M.S., is Supervisory Special Agent, Federal Bureau of Investigation, and Program Manager, Violent Criminal Apprehension Program, National Center for the Analysis of Violent Crime, FBI Academy, Quantico, VA.